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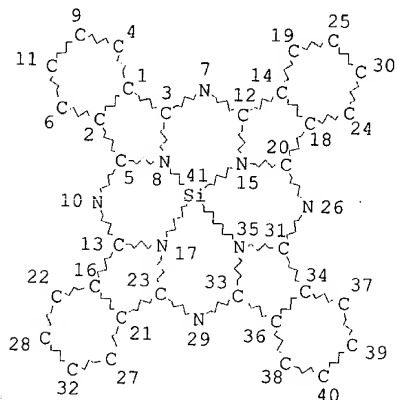
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=> d his 130-134

(FILE 'HCAPLUS' ENTERED AT 16:02:33 ON 26 FEB 2003)
 L30 359 S L29 ← Total citations having related structures
 L31 7 S L30 AND (L11-L13)
 L32 4 S L30 AND (FLUORESCENT(3A) (PARTICL? OR LIPOSOM? OR MICROSPHERE?
 L33 0 S L30 AND (FLOURESCENT(5A) (PHAGE# OR CELL# OR ENCAPSULAT? OR EN
 L34 4 S L31 AND L32 ← All four of articles containing fluorescent particles
 were by inventors
 citations with
 requested
 structures
 along with
 fluorescent
 particles etc.

=> d que 131

L6 8922 SEA FILE=REGISTRY C>=32 AND H>=18 AND N>=8 AND SI>=1
 L7 8112 SEA FILE=REGISTRY L6 AND O>=2 ← Substances having at least
 L11 86 SEA FILE=HCAPLUS BUECHLER K?/AU 32 carbons, at least 18
 L12 30 SEA FILE=HCAPLUS NOAR J?/AU hydrogens, at least 8 nitrogens,
 L13 13 SEA FILE=HCAPLUS TADESSE L?/AU at least one silicon, and at least
 L24 STR 2 oxygens



← Parent structure showing
 core phthalocyanine with complexed
 silicon

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 41

STEREO ATTRIBUTES: NONE

L27 2189 SEA FILE=REGISTRY SUB=L7 SSS FUL L24 searched structure L24 on answer
 L28 2081 SEA FILE=REGISTRY L27 AND SI<=4 set L7
 L29 924 SEA FILE=REGISTRY L28 AND SI=3 further limited to compounds having
 L30 359 SEA FILE=HCAPLUS L29 exactly 3 silicons
 L31 7 SEA FILE=HCAPLUS L30 AND ((L11 OR L12 OR L13))

← displays structures with hits

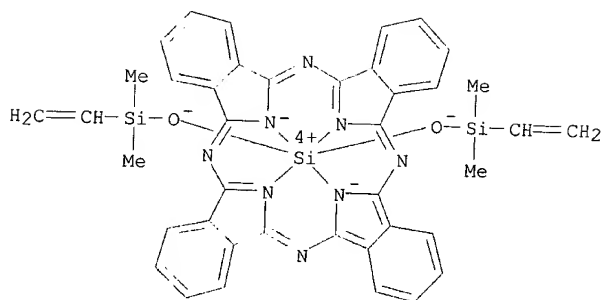
=> d ibib abs hitstr 131 1-7

← Citations having the
 above parameters by
 the inventors

L31 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:392193 HCAPLUS
 DOCUMENT NUMBER: 136:356382

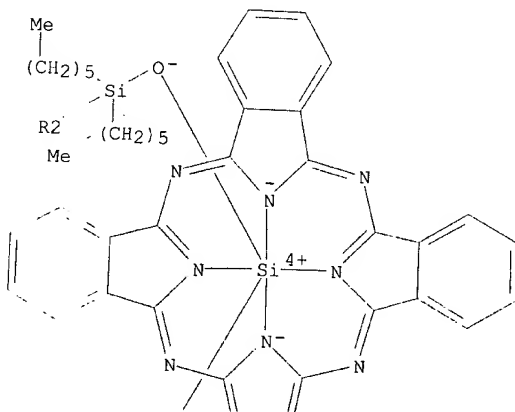
TITLE: Hybrid phthalocyanine derivatives and their uses
 INVENTOR(S): Buechler, Kenneth F.; Noar, Joseph
 B.; Tadesse, Lema
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 61 pp., Cont.-in-part of U.S.
 Ser. No. 66,255.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
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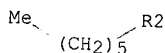
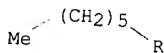
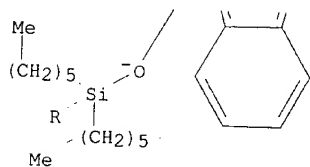
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US 2002061602	A1	20020523	US 2001-776599	20010201
US 6238931	B1	20010529	US 1994-274534	19940712
WO 9508772	A1	19950330	WO 1994-US10826	19940923
W: AU, CA, JP RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5763189	A	19980609	US 1994-311098	19940923
US 6251687	B1	20010626	US 1995-409298	19950323
US 5824799	A	19981020	US 1996-620597	19960322
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			US 1993-138708	B2 19931018
			US 1994-274534	A2 19940712
			US 1994-311098	A2 19940923
			WO 1994-US10826	W 19940923
			US 1995-409298	A2 19950323
			US 1995-409825	B2 19950323
			US 1996-620597	A1 19960322
			US 1998-66255	A2 19980424
AB	Water sol. hybrid phthalocyanine derivs. useful in competitive and noncompetitive assays immunoassays, nucleic acid and assays are disclosed and claimed having (1) at least one donor subunit with a desired excitation peak; and (2) at least one acceptor subunit with a desired emission peak, wherein said deriv.(s) is/are capable of intramol. energy transfer from said donor subunit to said acceptor subunit. Such derivs. also may contain an electron transfer subunit. Axial ligands may be covalently bound to the metals contained in the water sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins and nucleic acids can be linked to the axial ligands of the dyes to form dye conjugates useful in immunoassays and nucleic acid assays.			
IT	68812-20-4P 92396-89-9P 163968-88-5P 163968-89-6P 163968-92-1P 163968-94-3P 163968-95-4P 163969-09-3P 163969-10-6P 183872-63-1P 209161-30-8P 209161-31-9P 209161-33-1P RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (prepn. of hybrid phthalocyanine derivs. for uses in immunoassays and nucleic acid assays)			
RN	68812-20-4 HCAPLUS			
CN	Silicon, bis(ethenyldimethylsilanolato)[29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)-(9CI) (CA INDEX NAME)			



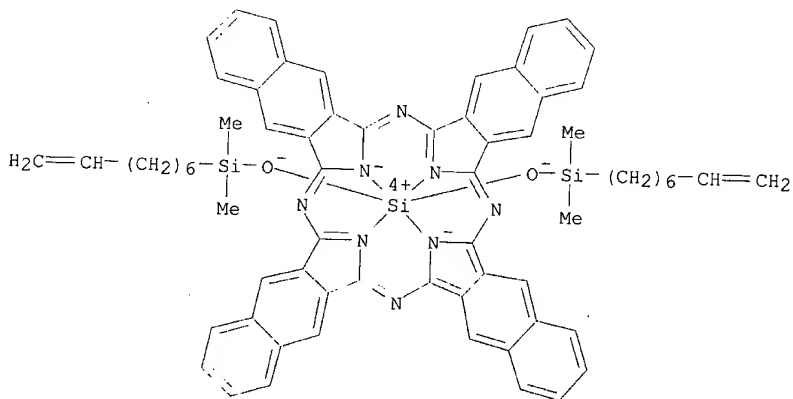
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 CN Silicon, [29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]bis(trihexylsilylanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)

PAGE 1-A

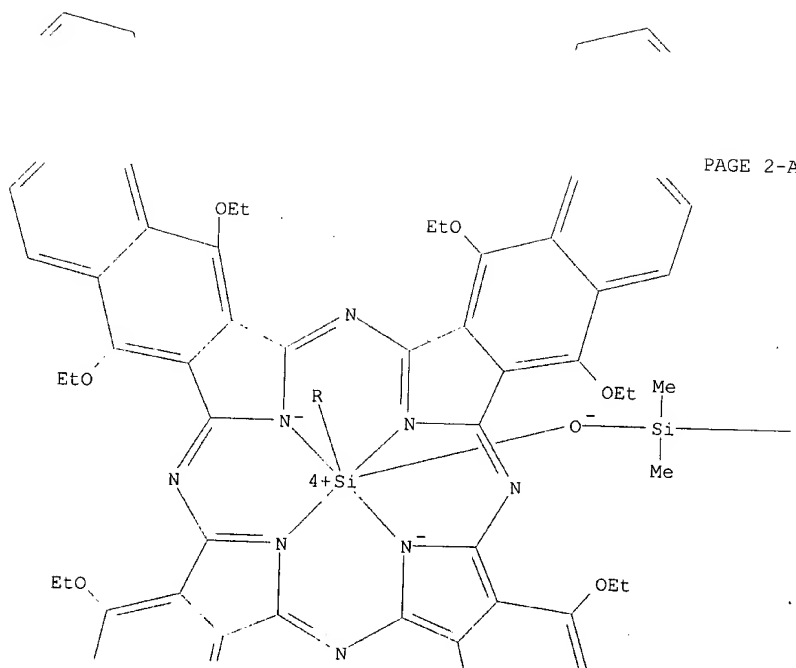


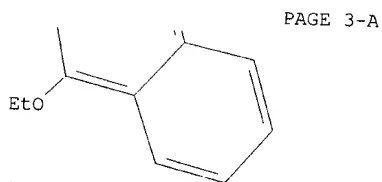
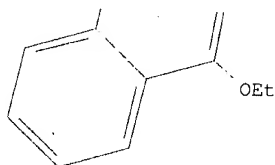
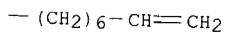


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 CN Silicon, bis(dimethyl-7-octenylsilanolato) [37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

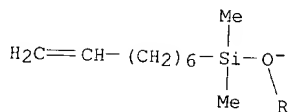


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 CN Silicon, bis(dimethyl-7-octenylsilanolato) [5,9,14,18,23,27,32,36-octaethoxy-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)



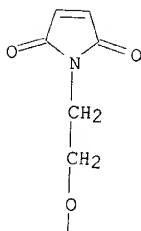


PAGE 3-A

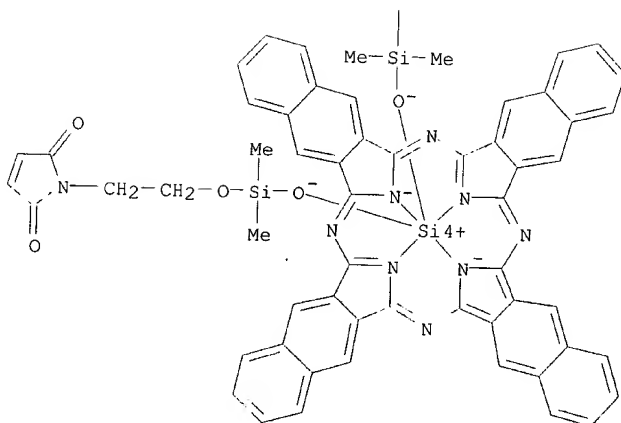


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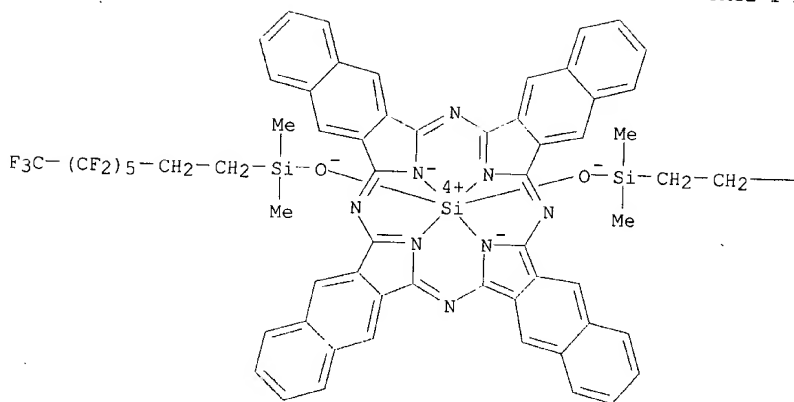
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PAGE 2-A



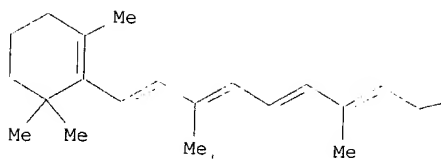
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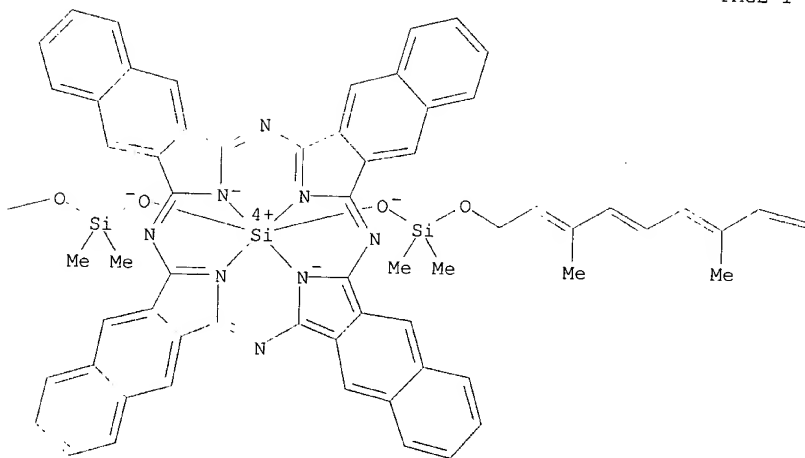
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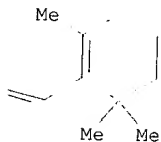
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PAGE 1-A

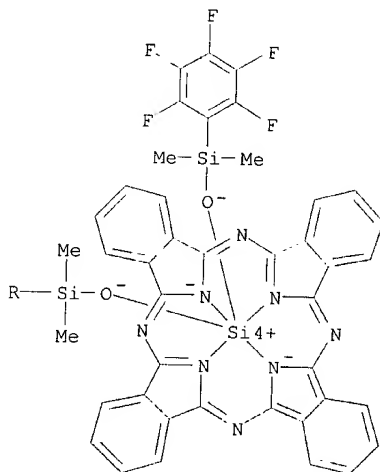


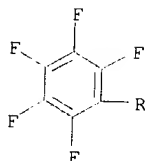
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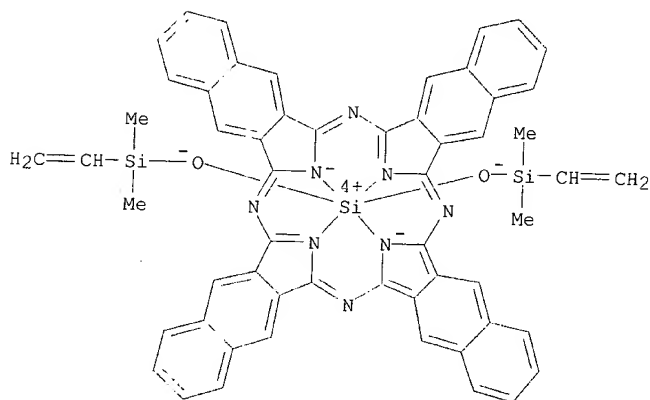


RN 163969-09-3 HCAPLUS
 CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O][29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)

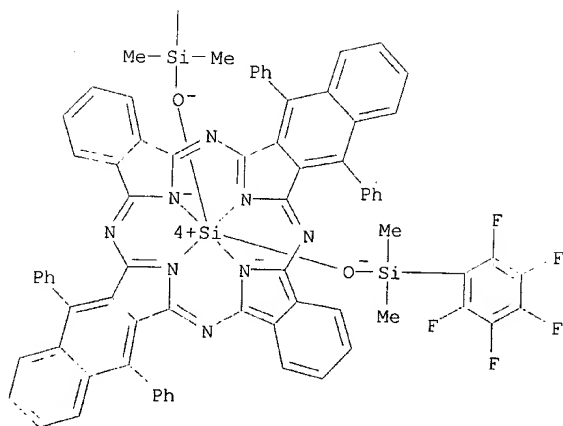
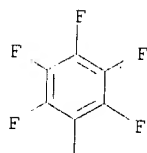




RN 163969-10-6 HCAPLUS
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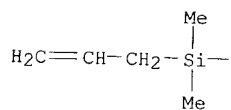


RN 183872-63-1 HCAPLUS
 CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O][8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)-(9CI) (CA INDEX NAME)

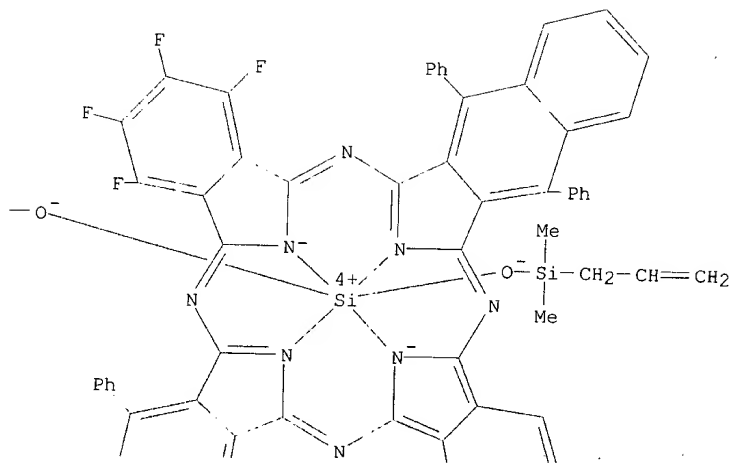


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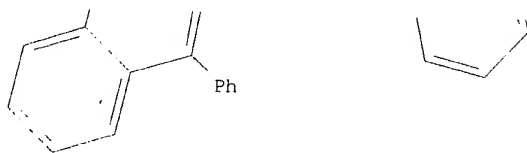
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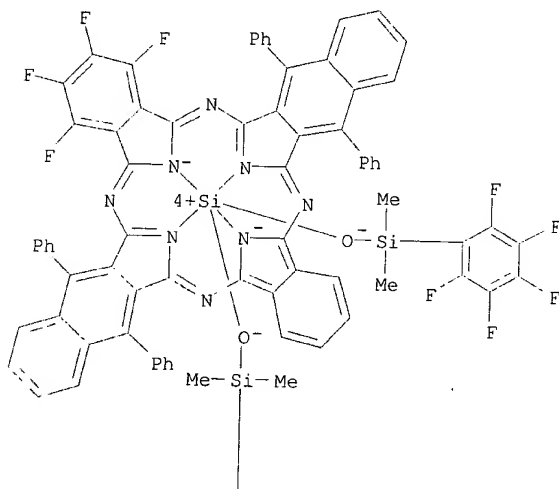


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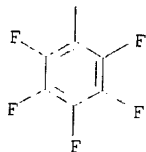


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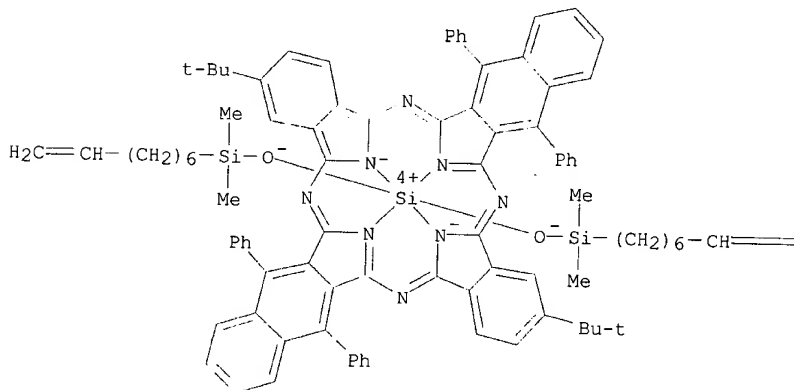
PAGE 2-A



RN 209161-33-1 HCAPLUS

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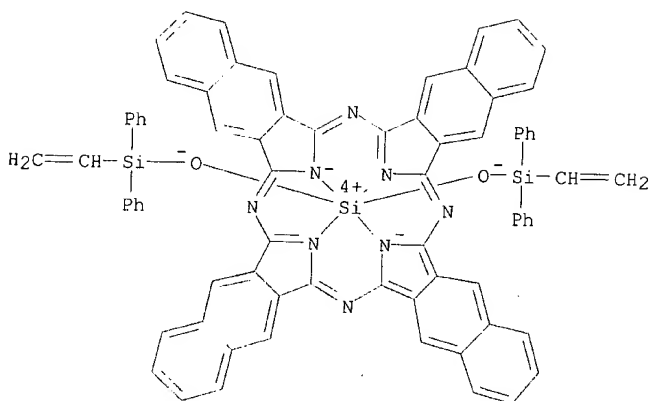
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183872-57-3P 183872-66-4P 209161-25-1P

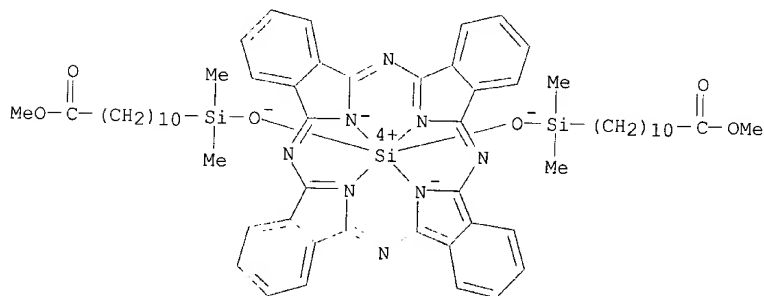
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(prepn. of hybrid phthalocyanine derivs. for uses in immunoassays and
nucleic acid assays)

RN 163968-91-0 HCAPLUS

CN Silicon, bis(ethenyldiphenylsilanolato) [37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-1:2''',3'''-q]porphyrizinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

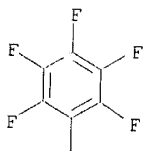


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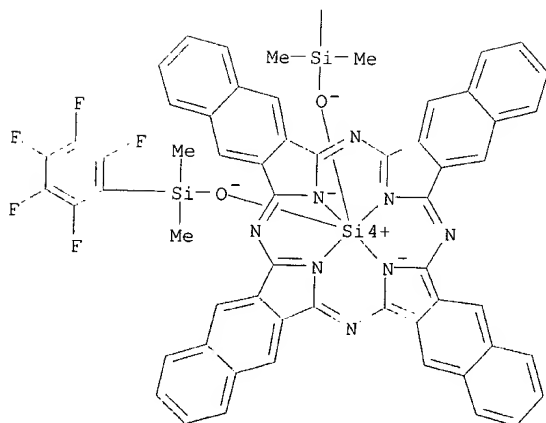


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 NAME)

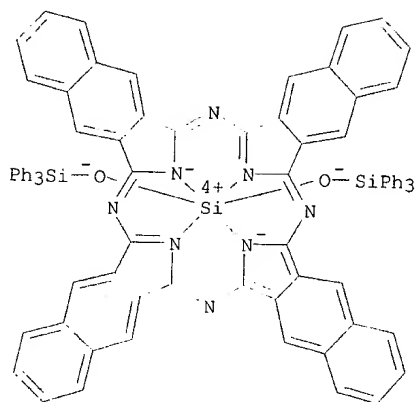
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PAGE 2-A

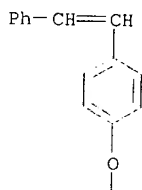


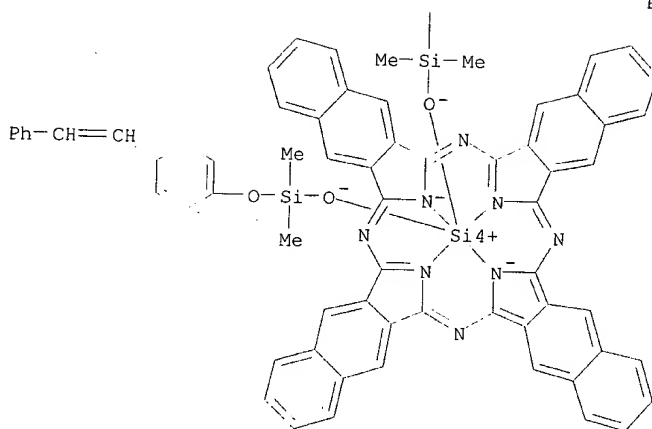
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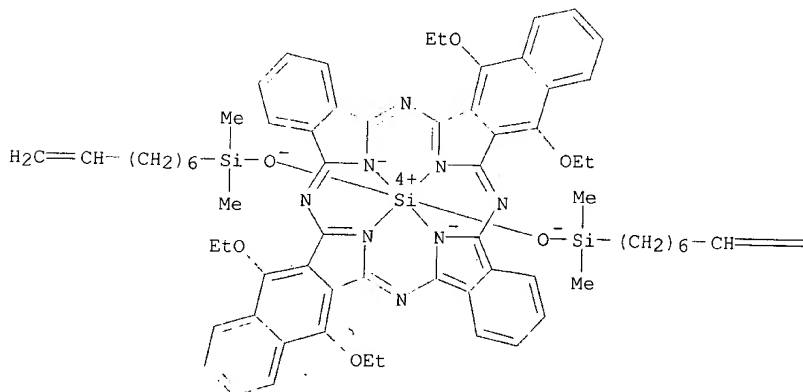
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 q]porphyrinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-,
 (OC-6-12)- (9CI) (CA INDEX NAME)

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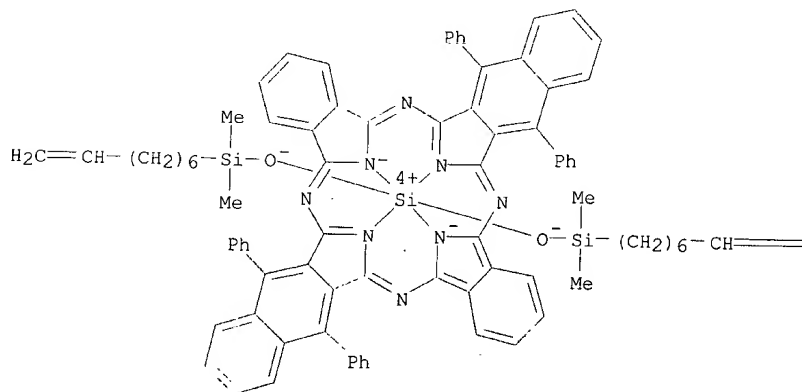
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RN 183872-57-3 HCAPLUS
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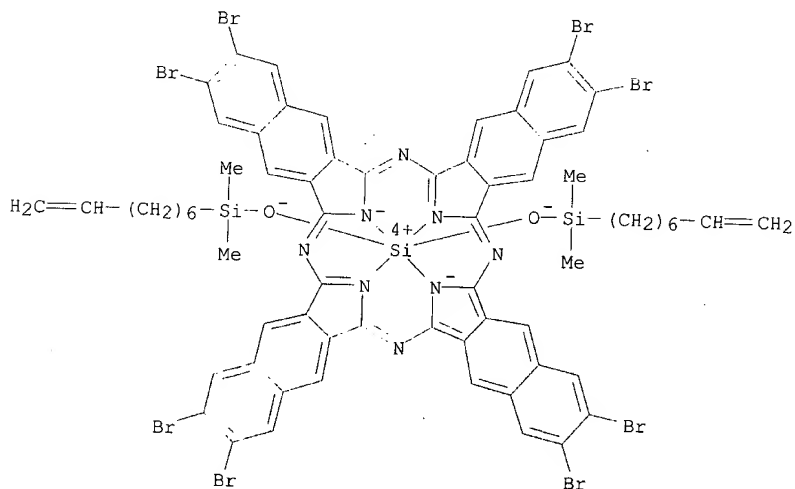
PAGE 1-A



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RN 209161-25-1 HCAPLUS

CN Silicon, bis[3-[(hydroxy-.kappa.O)dimethylsilyl]propanenitrilato][29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L31 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:464312 HCAPLUS

DOCUMENT NUMBER: 135:78227

TITLE: Fluorescence energy transfer and intramolecular energy

INVENTOR(S): transfer in particles using novel compounds
 Buechler, Kenneth F.; Noar, Joseph
 Barry; Tadesse, Lema
 PATENT ASSIGNEE(S): Biosite Diagnostics, Inc., USA
 SOURCE: U.S., 57 pp., Cont.-in-part of U.S. 5,763,189.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6251687	B1	20010626	US 1995-409298	19950323
US 6238931	B1	20010529	US 1994-274534	19940712
US 5763189	A	19980609	US 1994-311098	19940923
US 2002061602	A1	20020523	US 2001-776599	20010201

PRIORITY APPLN. INFO.:

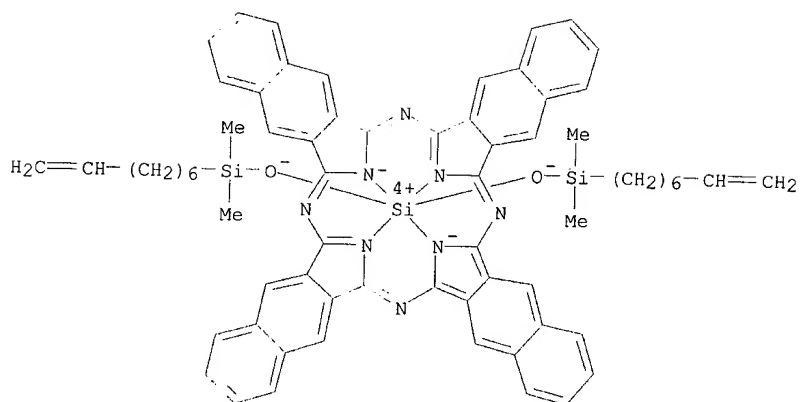
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US 1995-409298	A2	19950323
US 1995-409825	B2	19950323
US 1996-620597	A1	19960322
US 1998-66255	A2	19980424

AB The invention describes the particles comprising an energy donor as a first component and a fluorescent dye as a second component positioned in said particles at an energy exchanging distance from one another, wherein the two components have a Stokes shift of greater than or equal to 50 nm, said particle having bound on its surface, a protein, polypeptide, nucleic acid, nucleotide or protein contg. ligand analog are disclosed and claimed. In addn., novel fluorescent dyes are described which exhibit intramol. energy transfer for use to label various mols., proteins, polypeptides, nucleotides and nucleic acids or to incorporate into particles.

IT 163968-88-5P 163968-89-6P 163968-94-3P
 163968-95-4P 183872-48-2P 183872-56-2P
 183872-57-3P 183872-61-9P 183872-62-0P
 183872-63-1P 183872-66-4P 183872-71-1P
 183872-74-4P 183872-76-6P 183872-77-7P
 183872-79-9P 183872-84-6P 183872-94-8P
 183872-95-9P 183872-96-0P 183873-19-0P
 183873-20-3P 183973-60-6P 342373-96-0DP,
 fluorescein ATP derivs.
 RL: ARG (Analytical reagent use); IMF (Industrial manufacture); ANST (Analytical study); PREP (Preparation); USES (Uses)
 (dye; fluorescence energy transfer and intramol. energy transfer in particles using novel compds., manuf. and use in assay of biomol.)

RN 163968-88-5 HCAPLUS

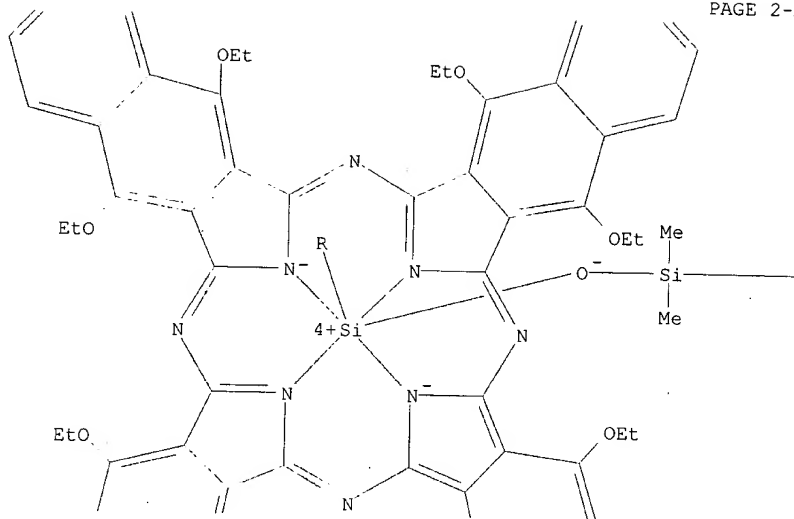
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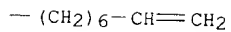
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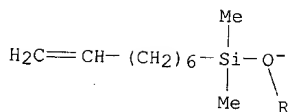
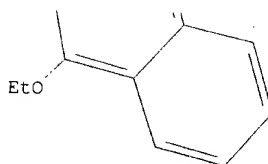
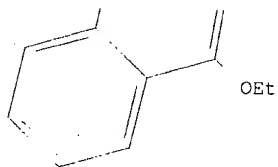
PAGE 1-A

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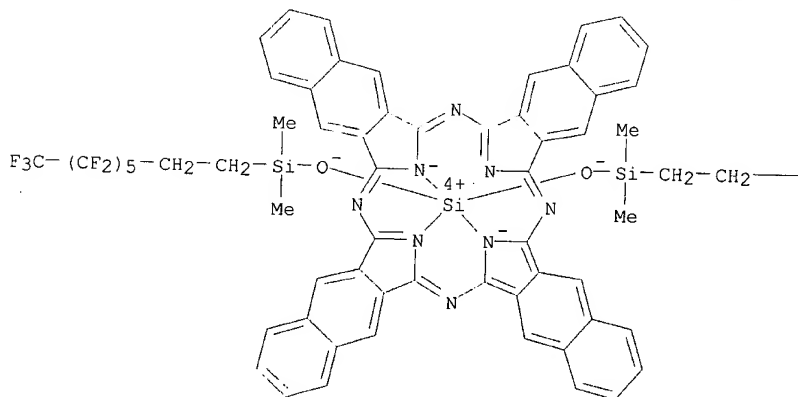


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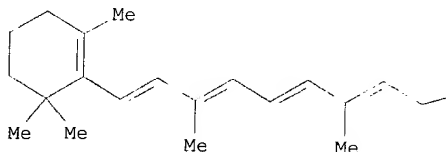
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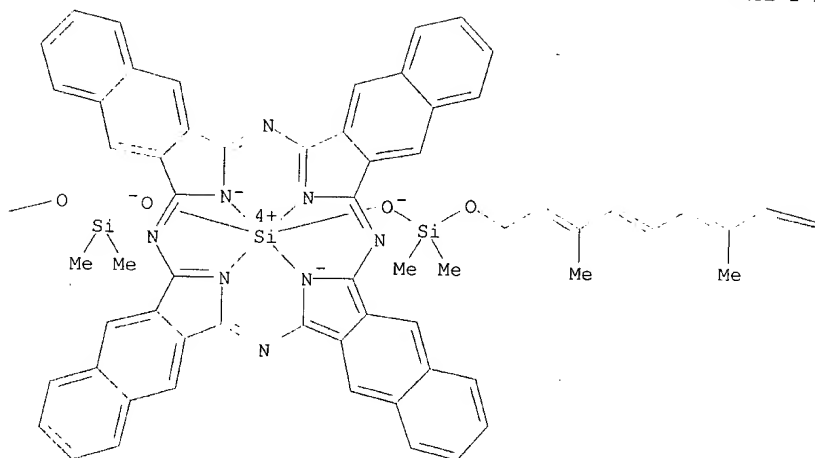
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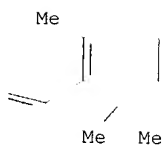
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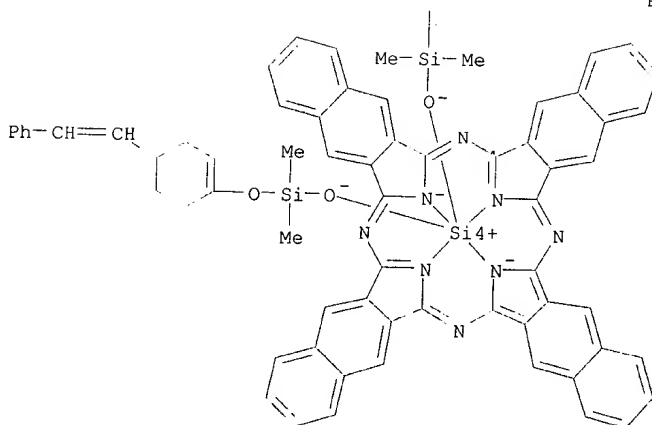
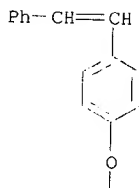
PAGE 1-B



PAGE 1-C

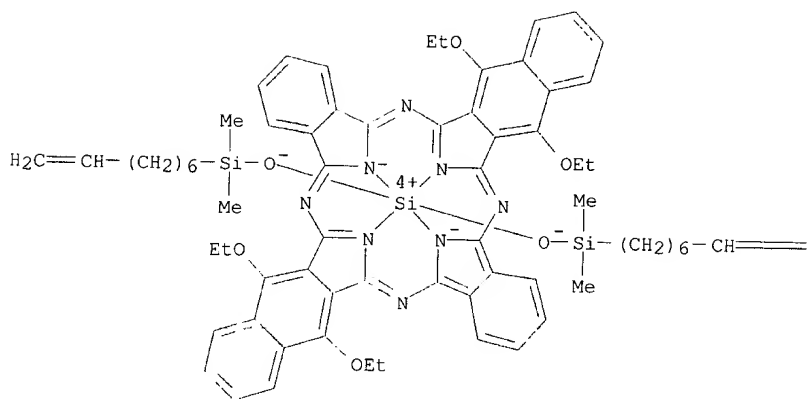


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 q]porphyrinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-,
 (OC-6-12)-(9CI) (CA INDEX NAME)



RN 183872-56-2 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato) [8,13,24,29-tetraethoxy-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrazinato-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

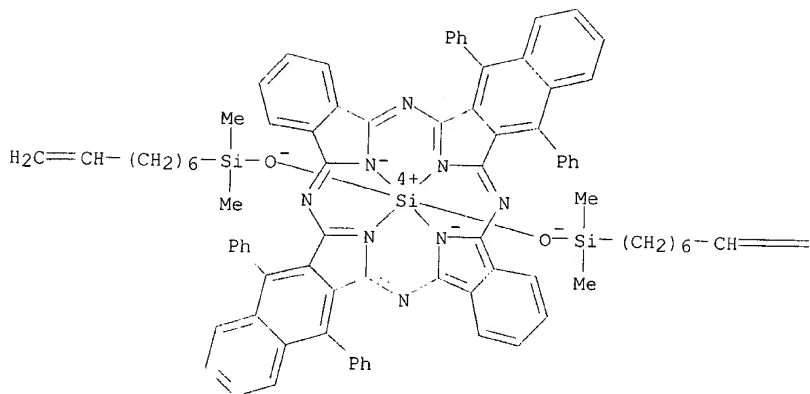
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=CH₂

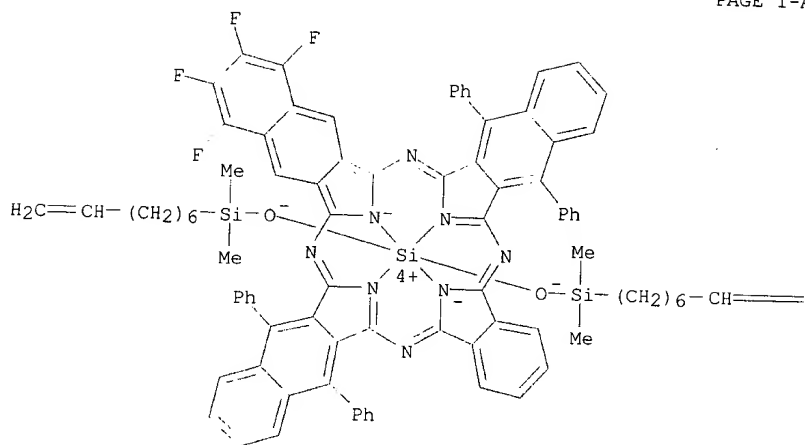
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 CN Silicon, bis(dimethyl-7-octenylsilanolato) [8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)-(9CI) (CA INDEX NAME)



=CH₂

RN 183872-61-9 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato) [1,2,3,4-tetrafluoro-9,14,25,30-tetraphenyl-35H,37H-benzo[b]trinaphtho[2,3-g:2',3'-1:2'',3''-q]porphyrazinato(2-)-.kappa.N35,.kappa.N36,.kappa.N37,.kappa.N38]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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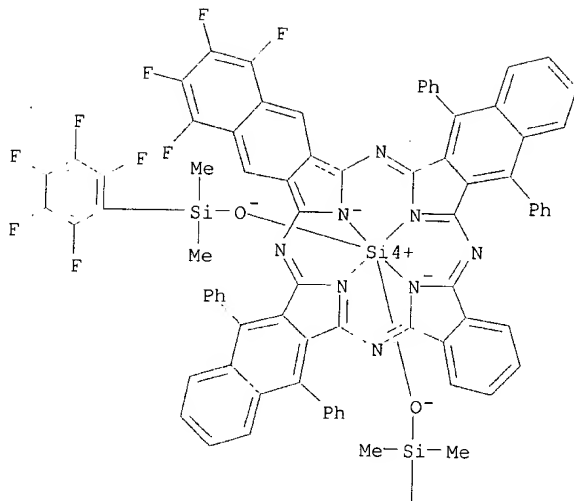


PAGE 1-B

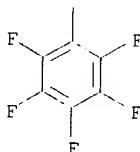
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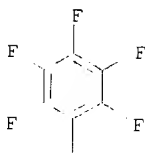


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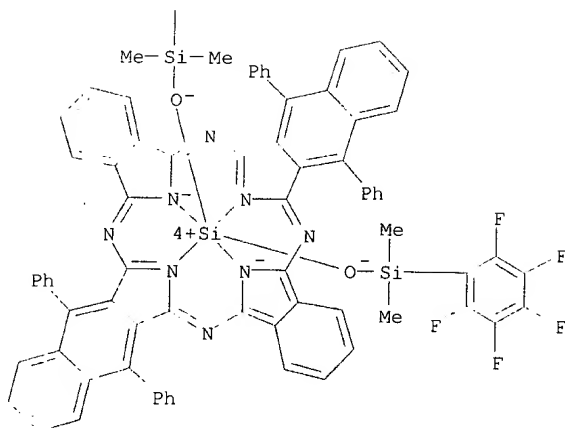


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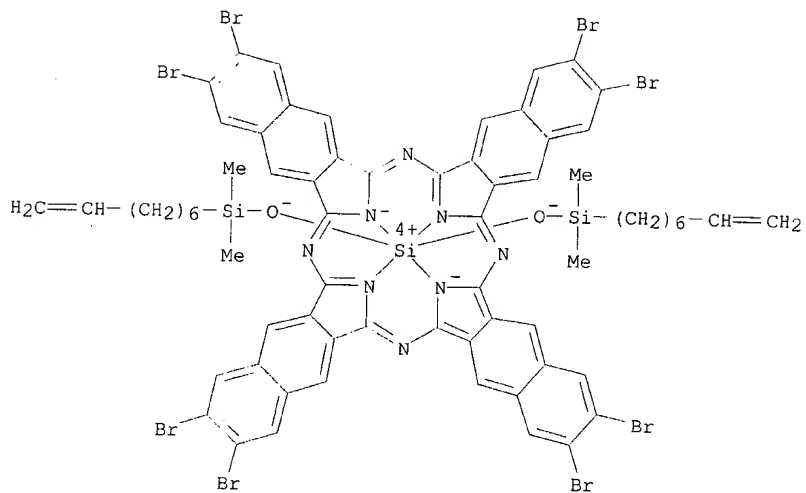
PAGE 1-A



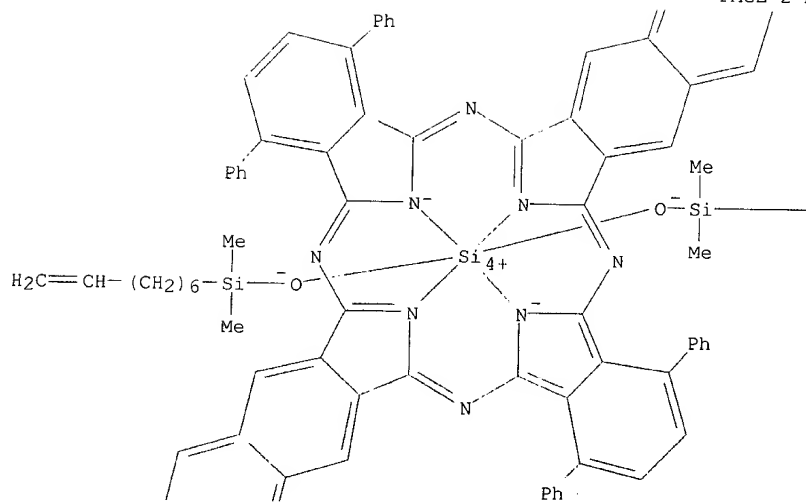
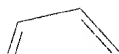
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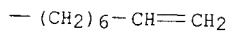


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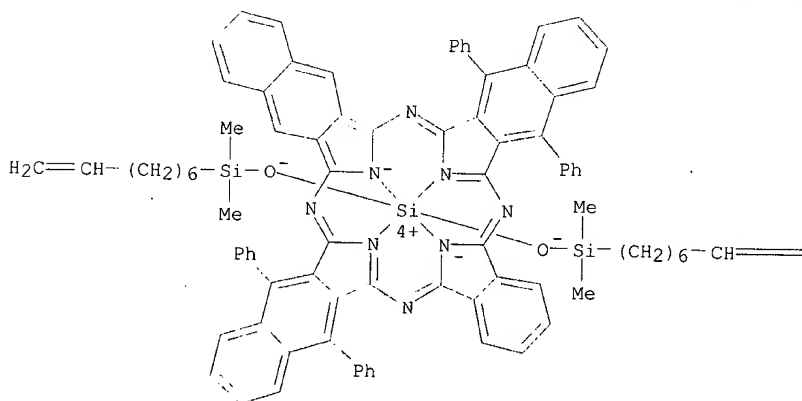


RN 183872-71-1 HCAPLUS
 CN Silicon, (dimethyl-7-octenylsilanolato) [1,4,17,20-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g,2',3'-q]porphyrazinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)





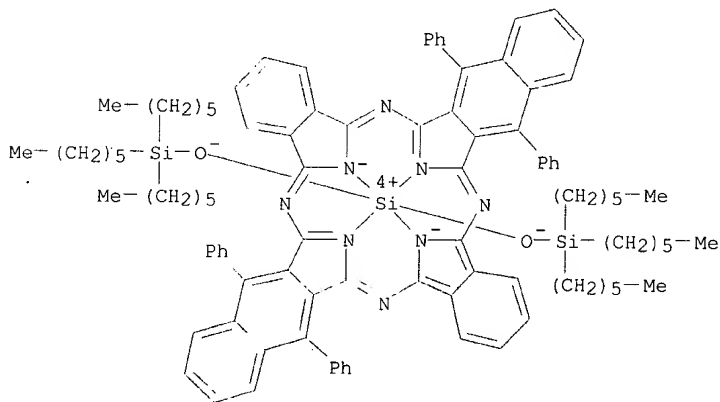
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=CH₂

RN 183872-76-6 HCAPLUS

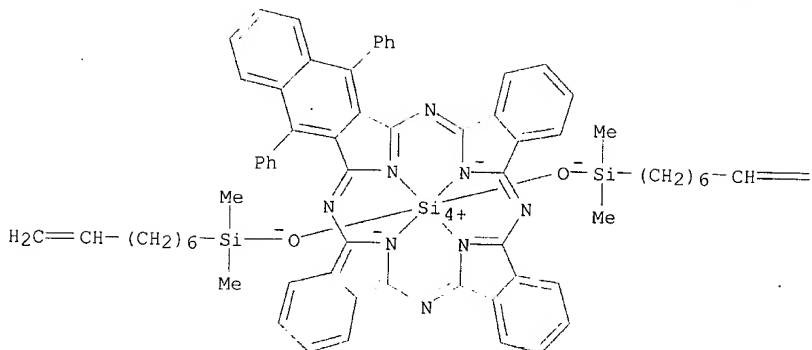
CN Silicon, [8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrazinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]bis(triethylsilanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)



RN 183872-77-7 HCAPLUS

CN Silicon, bis(dimethyl-7-octenylsilanolato)[22,27-diphenyl-31H,33H-tribenzo[b,g,1]naphtho[2,3-q]porphyrazinato(2-)-.kappa.N31,.kappa.N32,.kappa.N33,.kappa.N34]-, (OC-6-13)- (9CI) (CA INDEX NAME)

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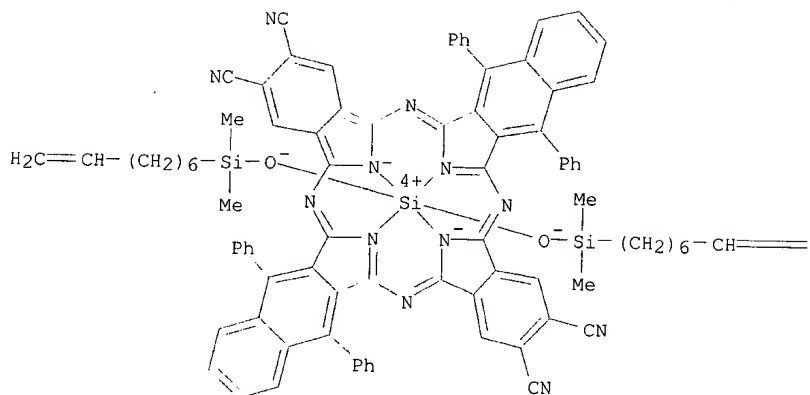


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=CH₂

RN 183872-79-9 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato) [8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrazine-2,3,18,19-tetracarbonitrilato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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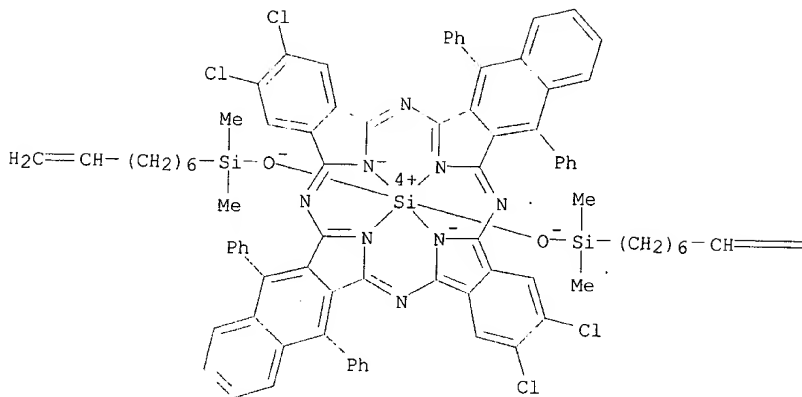


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=CH₂

RN 183872-84-6 HCAPLUS
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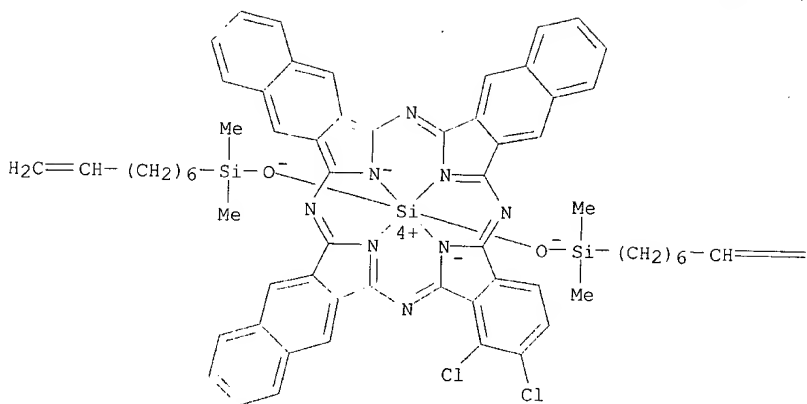


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=CH₂

RN 183872-94-8 HCAPLUS
 CN Silicon, [18,19-dichloro-35H,37H-benzo[b]trinaphtho[2,3-g:2',3'-1:2'',3''-q]porphyrazinato(2-)-.kappa.N35,.kappa.N36,.kappa.N37,.kappa.N38]bis(dimethyl-7-octenylsilanolato)-, (OC-6-13)- (9CI) (CA INDEX NAME)

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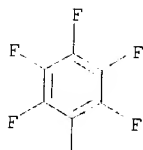


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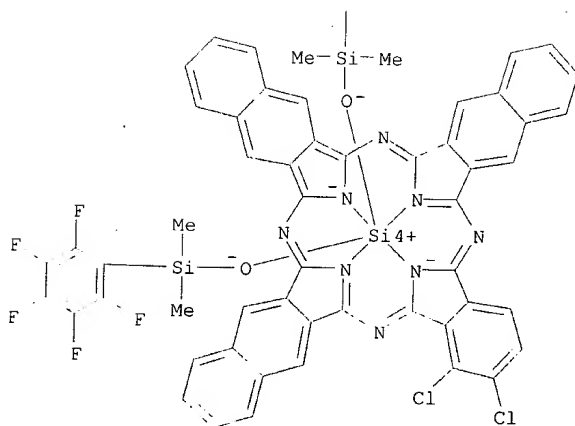
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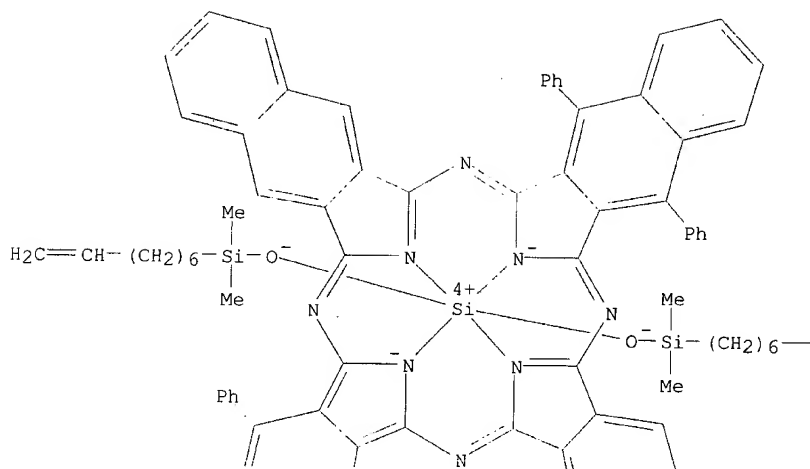


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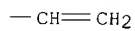


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 CN Silicon, bis(dimethyl-7-octenylsilanolato)[5,18,23,36-tetraphenyl-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)-(9CI) (CA INDEX NAME)

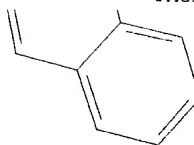
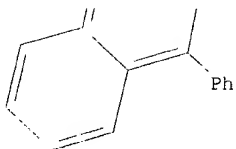
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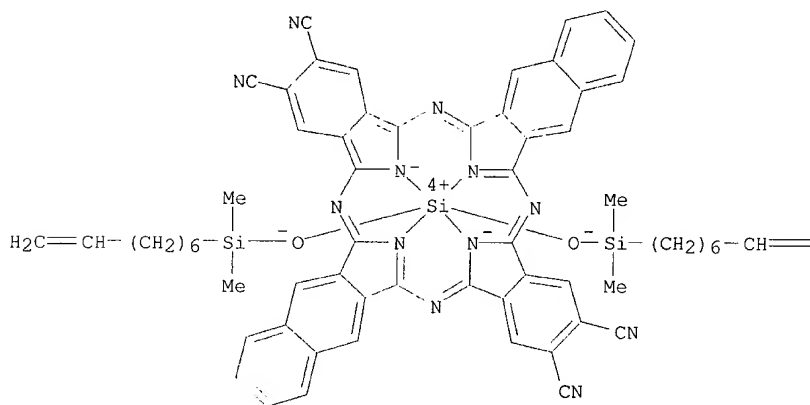


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RN 183873-19-0 HCAPLUS
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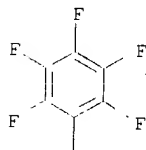
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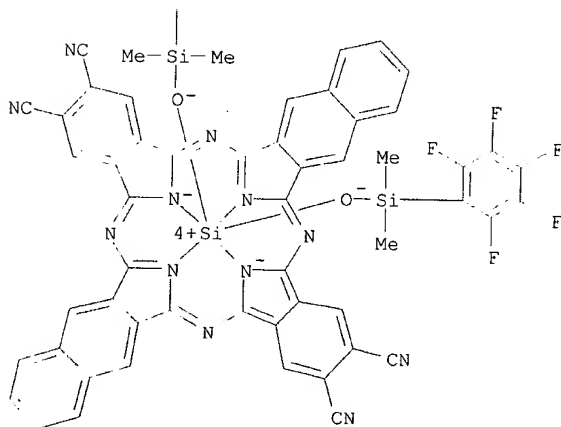
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(CA INDEX NAME)

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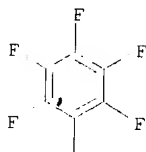
PAGE 2-A



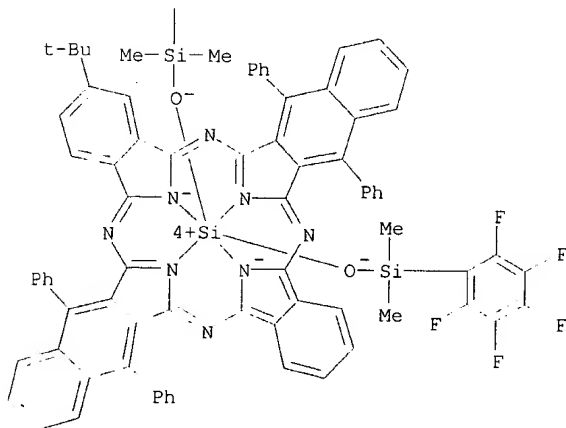
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D1-Bu-t

RN 342373-96-0 HCAPLUS
 CN Silicon, bis[1-[(hydroxy-.kappa.O)dimethylsilyl]-1H-pyrrole-2,5-dionato][29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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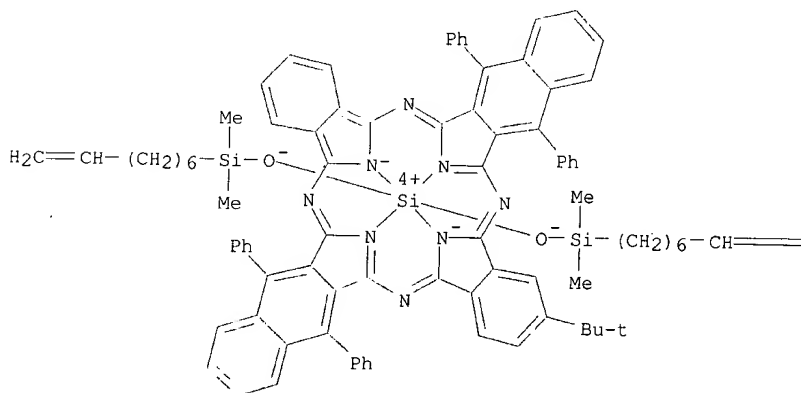
IT 183973-58-2P

RL: ARG (Analytical reagent use); IMF (Industrial manufacture); ANST (Analytical study); PREP (Preparation); USES (Uses)
 (intermediate; fluorescence energy transfer and intramol. energy transfer in particles using novel compds., manuf. and use in assay of biomol.)

RN 183973-58-2 HCAPLUS

CN Silicon, [2,18(or 2,19)-bis(1,1-dimethylethyl)-8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrizinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]bis(dimethyl-7-octenylsilanolato)- (9CI) (CA INDEX NAME)

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D1-Bu-t

=CH₂

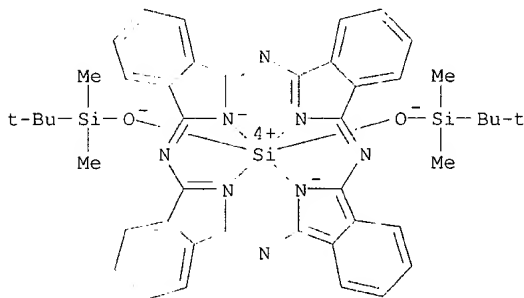
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 163969-10-6P 163969-11-7P 163969-15-1P
 183872-72-2P 183872-98-2P 183872-99-3P
 183873-03-2P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
 (Reactant or reagent)

(intermediate; fluorescence energy transfer and intramol. energy
 transfer in particles using novel compds., manuf. and use in assay of
 biomol.)

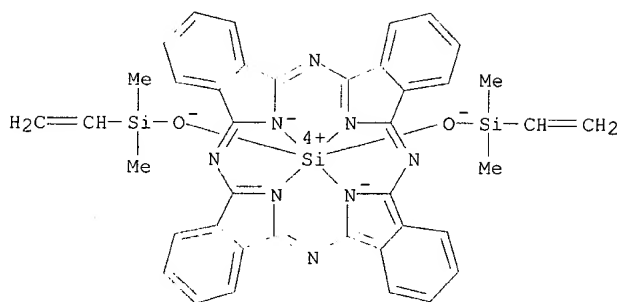
RN 67881-06-5 HCAPLUS

CN Silicon, bis[(1,1-dimethylethyl)dimethylsilanolato][29H,31H-
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 (OC-6-12)- (9CI) (CA INDEX NAME)



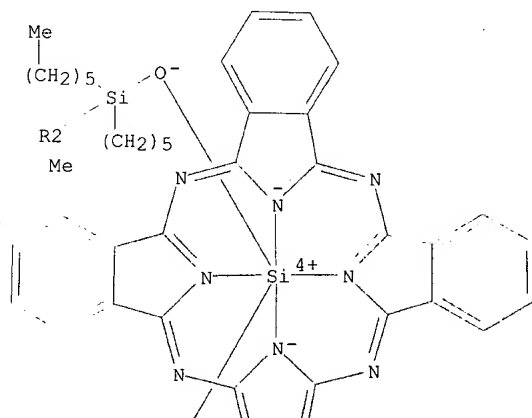
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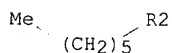
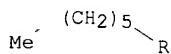
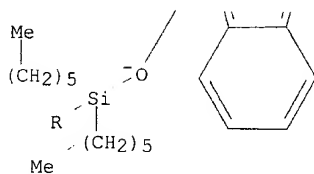
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 .kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX
 NAME)



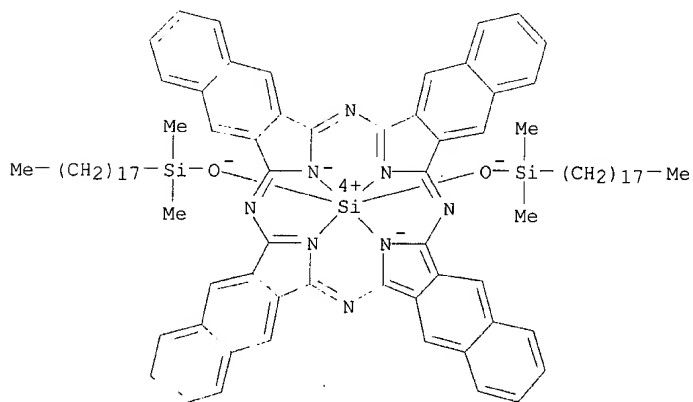
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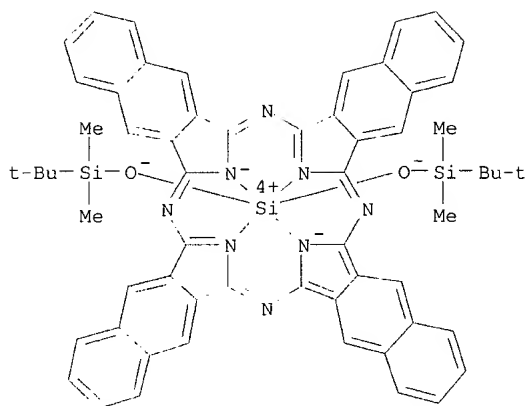




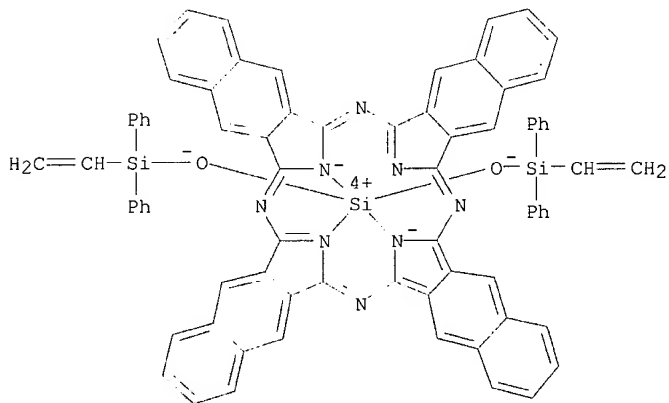
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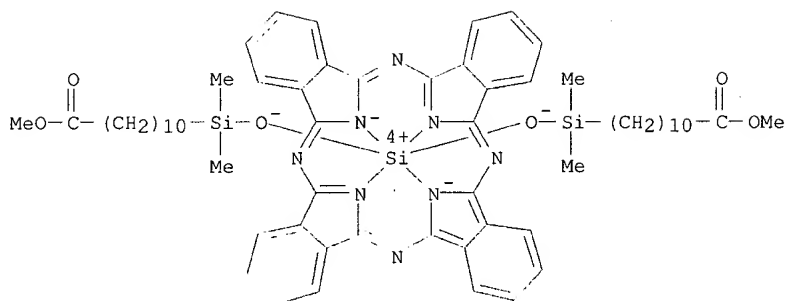
RN 153454-01-4 HCAPLUS
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RN 163968-91-0 HCAPLUS
 CN Silicon, bis(ethenyldiphenylsilanolato) [37H, 39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

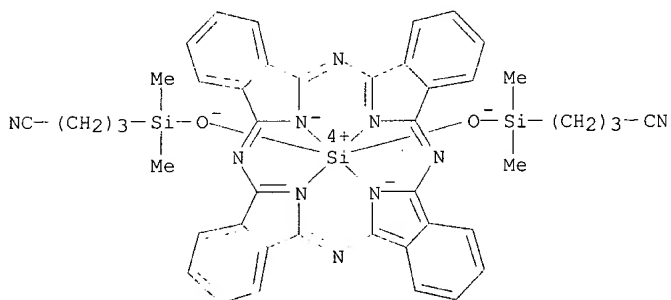


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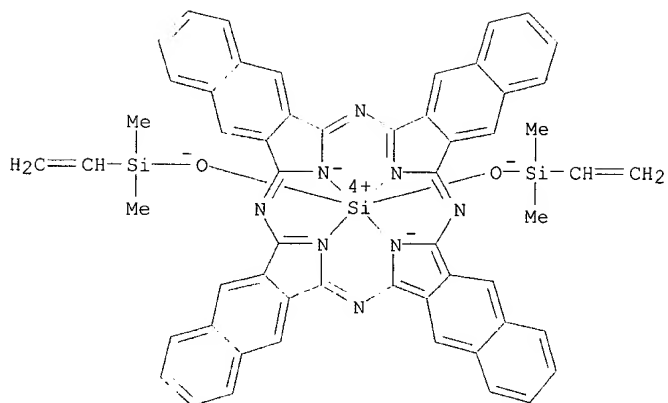
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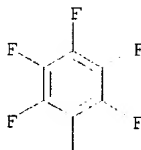
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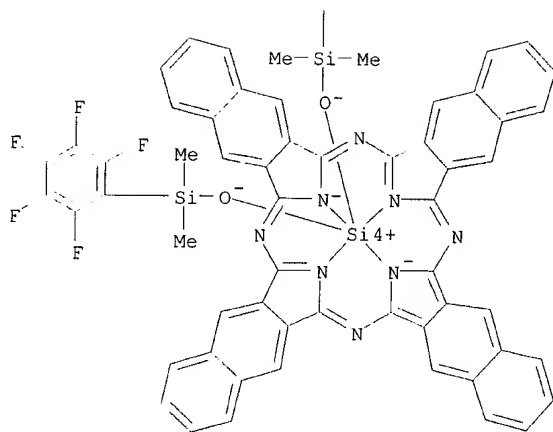
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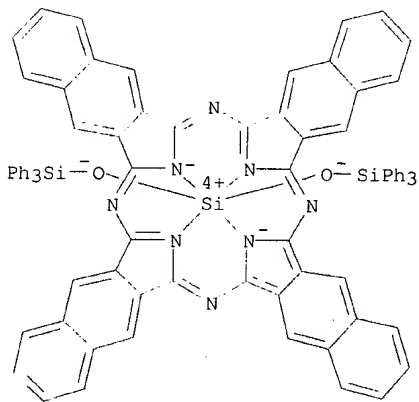
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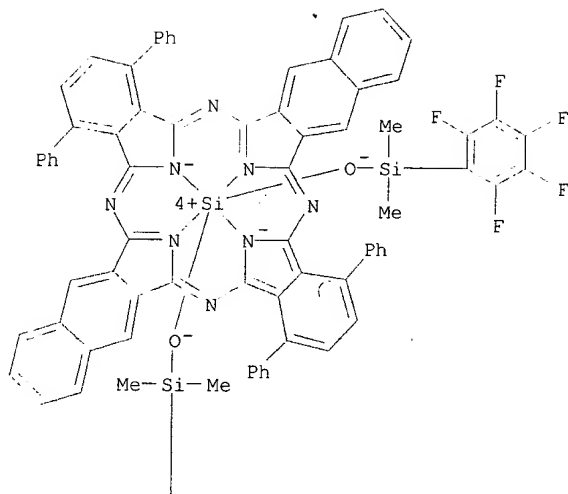


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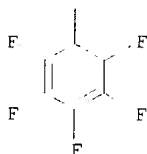


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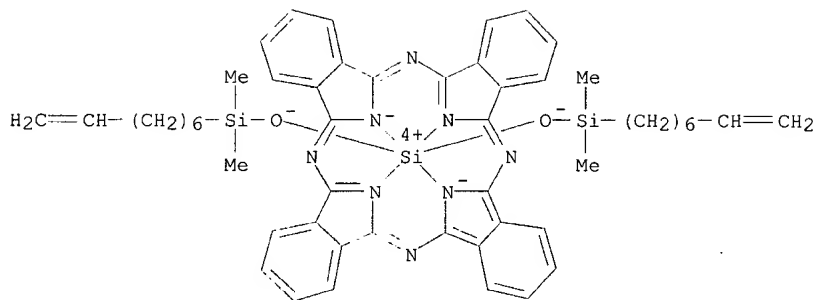
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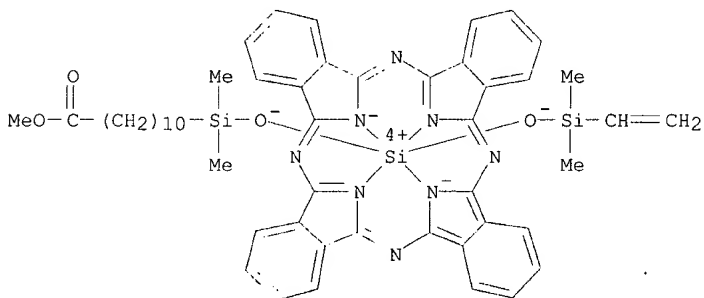


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 NAME)



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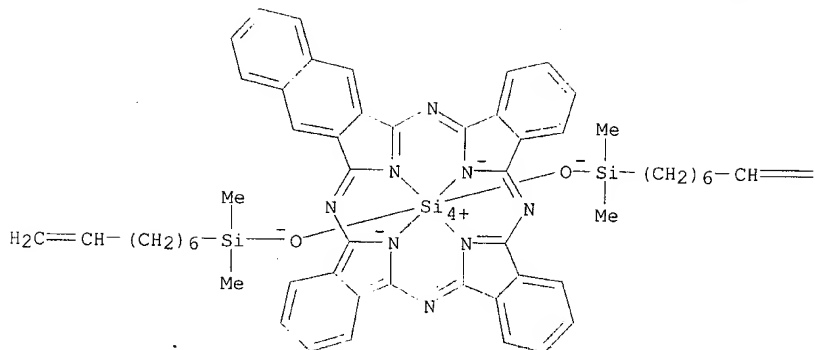
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NAME)



RN 183873-03-2 HCAPLUS

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.kappa.N31,.kappa.N32,.kappa.N33,.kappa.N34]-, (OC-6-13)- (9CI) (CA INDEX
NAME)

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=CH₂

IT 163969-09-3P

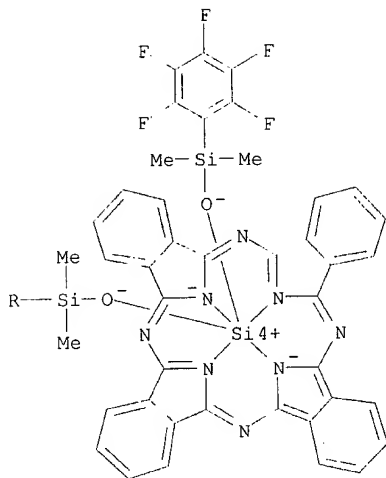
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(reactant; fluorescence energy transfer and intramol. energy transfer in particles using novel compds., manuf. and use in assay of biomol.)

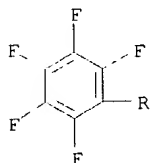
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REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:391992 HCAPLUS
DOCUMENT NUMBER: 135:2542
TITLE: Fluorescence energy transfer in particles
INVENTOR(S): Buechler, Kenneth F.; Noar, Joseph
Barry; Tadesse, Lema
PATENT ASSIGNEE(S): Biosite Diagnostics, Inc., USA
SOURCE: U.S., 30 pp., Cont.-in-part of U.S. Ser. No. 138,708,
abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6238931	B1	20010529	US 1994-274534	19940712
WO 9508772	A1	19950330	WO 1994-US10826	19940923
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RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9480112	A1	19950410	AU 1994-80112	19940923
EP 670041	A1	19950906	EP 1994-931287	19940923
EP 670041	B1	20020130		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 08503994	T2	19960430	JP 1994-509970	19940923
US 5763189	A	19980609	US 1994-311098	19940923
US 6251687	B1	20010626	US 1995-409298	19950323
AT 212721	E	20020215	AT 1994-931287	19950330
US 5824799	A	19981020	US 1996-620597	19960322
US 2002061602	A1	20020523	US 2001-776599	20010201

PRIORITY APPLN. INFO.:

US 1993-126367	B2	19930924
US 1993-138708	B2	19931018
US 1994-274534	A	19940712
US 1994-311098	A2	19940923
WO 1994-US10826	W	19940923
US 1995-409298	A2	19950323
US 1995-409825	A2	19950323
US 1996-620597	A1	19960322
US 1998-66255	A2	19980424

AB Particles and methods for the detection or visualization of analytes using fluorescence energy transfer are disclosed. Particles comprising an energy donor as a first component and a fluorescent dye as a second component positioned in said particles at an energy exchanging distance from one another, wherein the two components have a Stokes shift of greater than or equal to 50 nm, said particle having bound on its surface, a protein, polypeptide, nucleic acid, nucleotide or protein contg. ligand analog are disclosed and claimed. A fluorescence immunoassay for human chorionic gonadotropin (hCG) uses a conjugate of anti-hCG monoclonal antibody and latex particles contg. 1,1'-dihexyl-3,3',3'-tetramethylindodicarbocyanine iodide and silicon 2,3-naphthalocyanine bis(dimethylvinylsilyloxy) (prepn. given).

IT 163968-86-3 163969-09-3

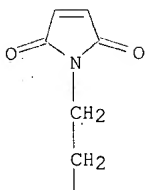
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(fluorescence energy transfer in particles)

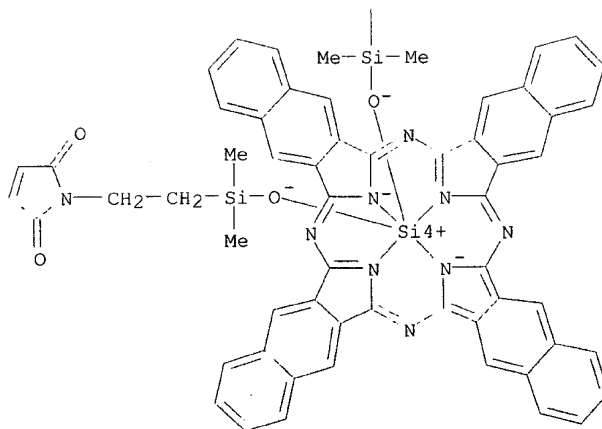
RN 163968-86-3 HCAPLUS

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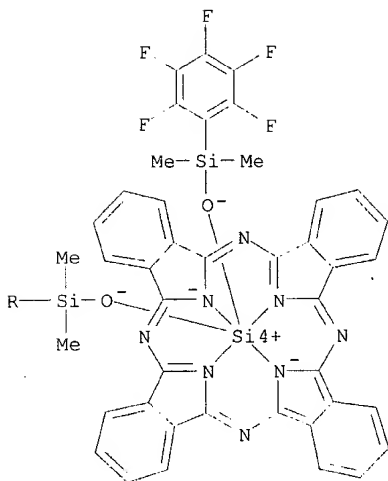


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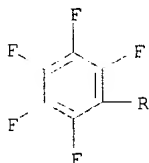


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 (OC-6-12)- (9CI) (CA INDEX NAME)

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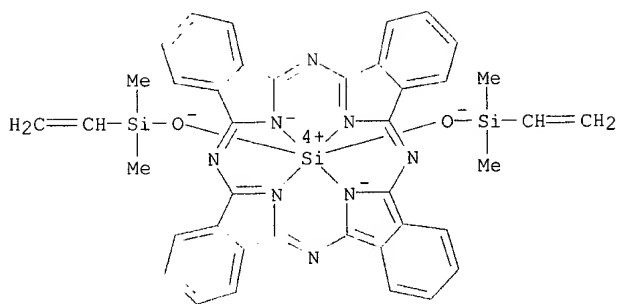


IT 68812-20-4P 92396-89-9P 163968-89-6P
163969-10-6P

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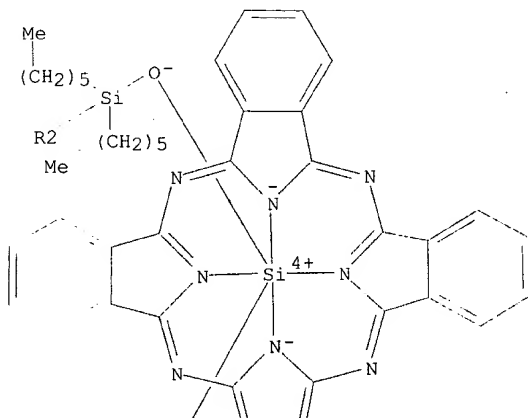
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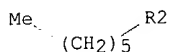
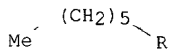
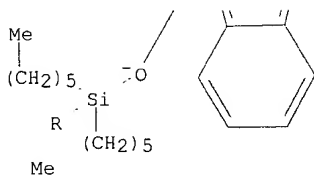


RN 92396-89-9 HCAPLUS
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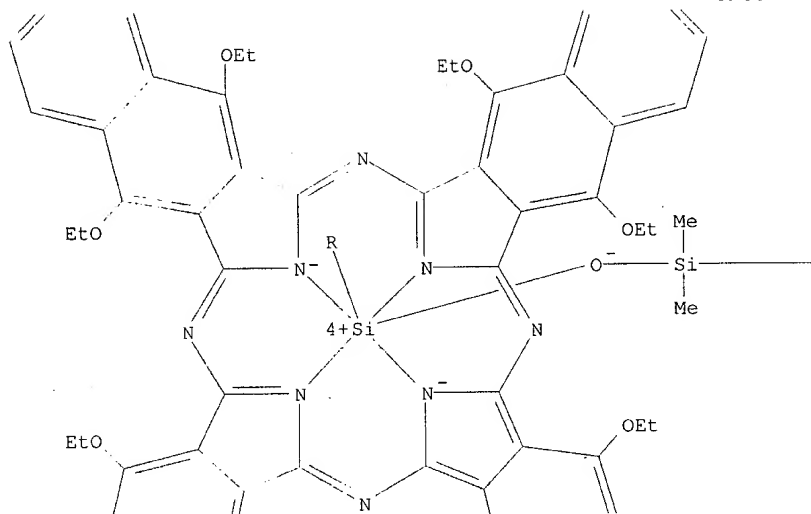
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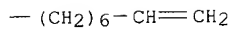
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 (OC-6-12)- (9CI) (CA INDEX NAME)

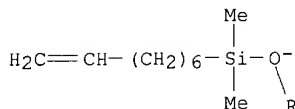
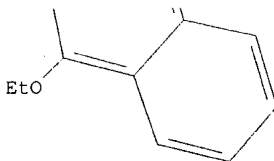
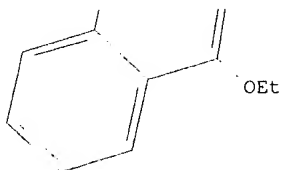
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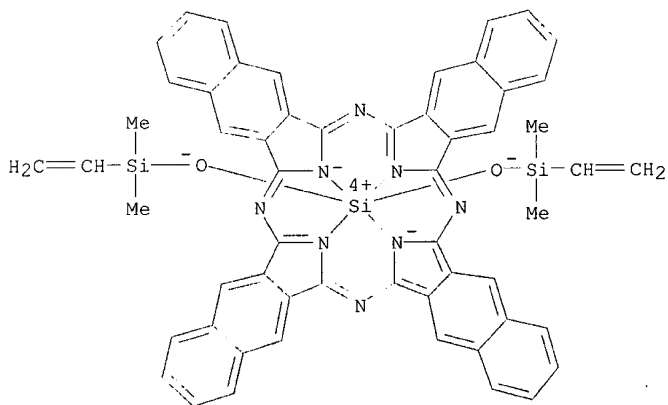


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RN 163969-10-6 HCAPLUS
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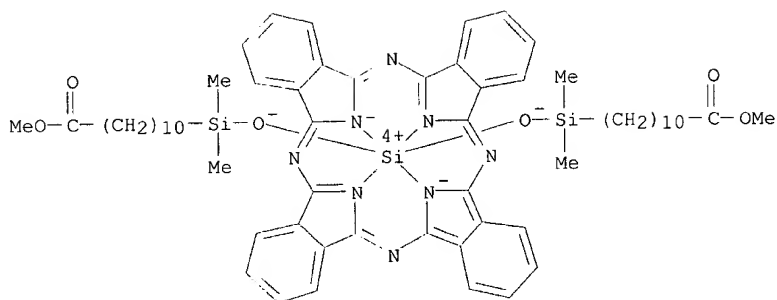


IT 163969-07-1P 163969-08-2P

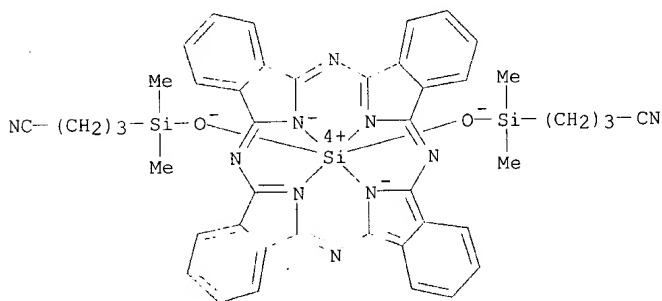
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
 (fluorescence energy transfer in particles)

RN 163969-07-1 HCAPLUS

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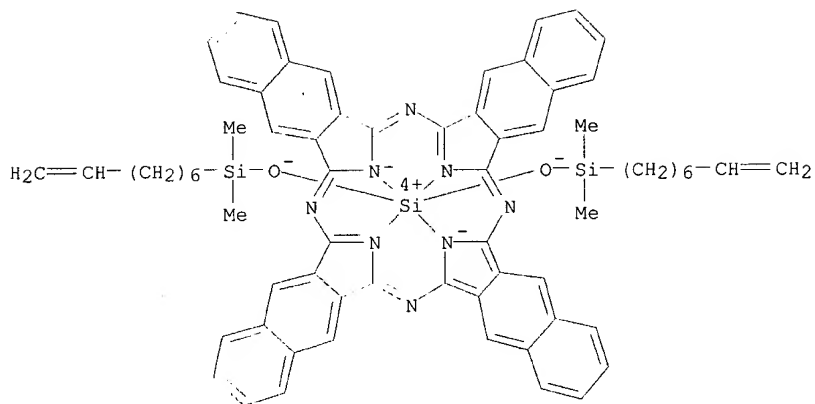
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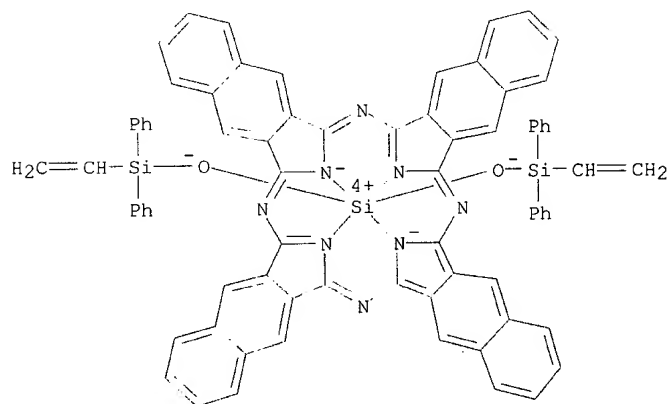
IT 342373-96-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (fluorescence energy transfer in particles)
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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

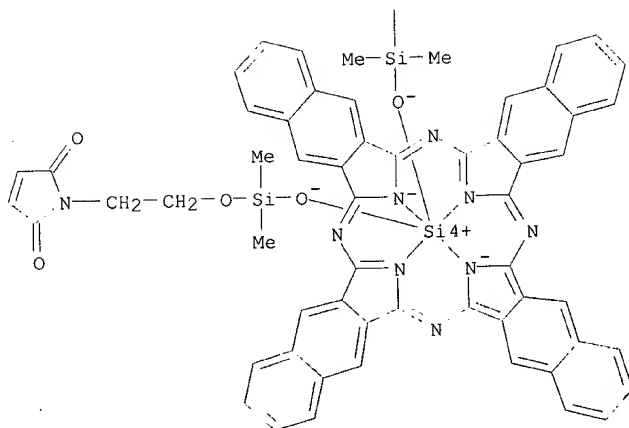
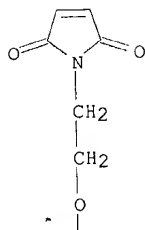
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 163968-94-3P 163968-95-4P 163969-11-7P
 163969-15-1P 183872-48-2P 342373-96-ODP,
 reaction with fluorescein
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (fluorescence energy transfer in particles)
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RN 163968-91-0 HCAPLUS
 CN Silicon, bis(ethenyldiphenylsilanolato) [37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

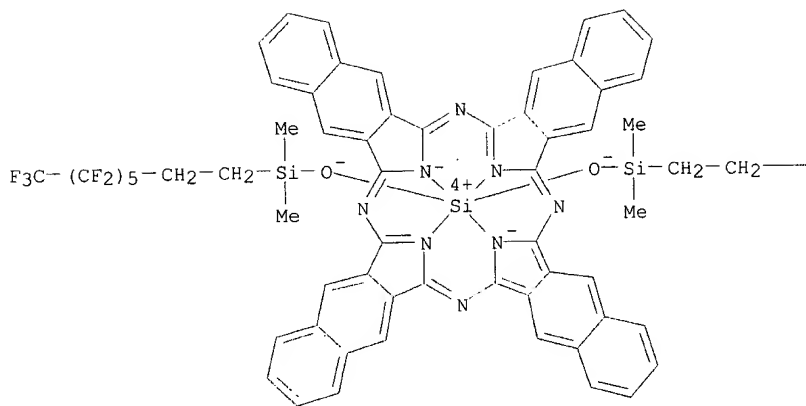


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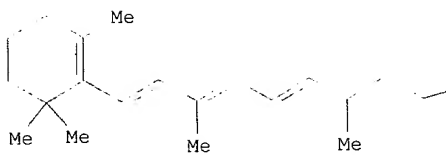


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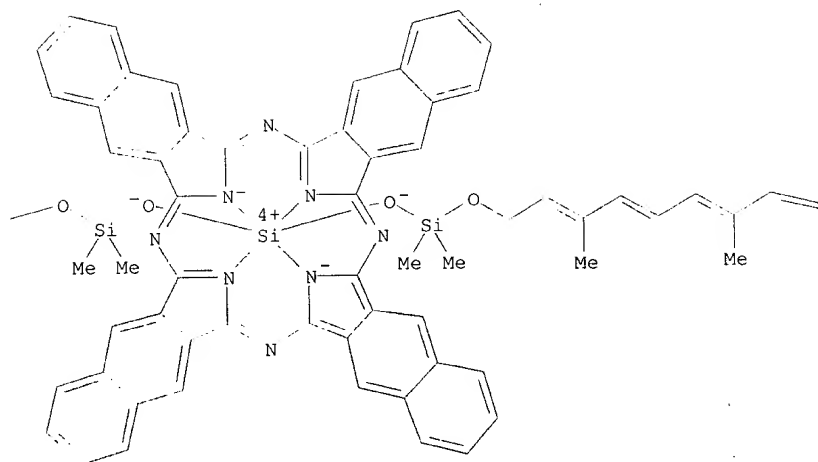
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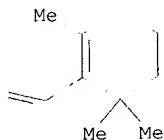
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PAGE 1-A

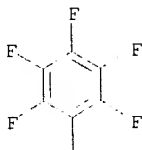


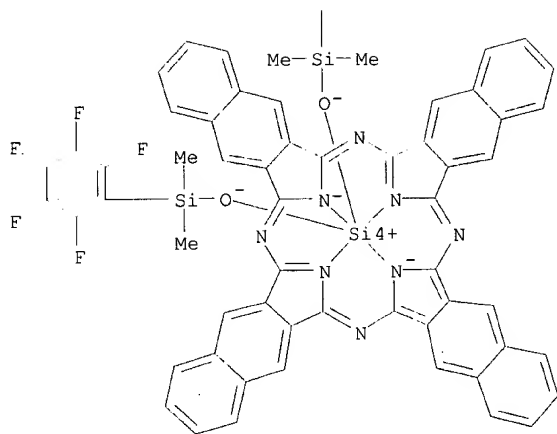
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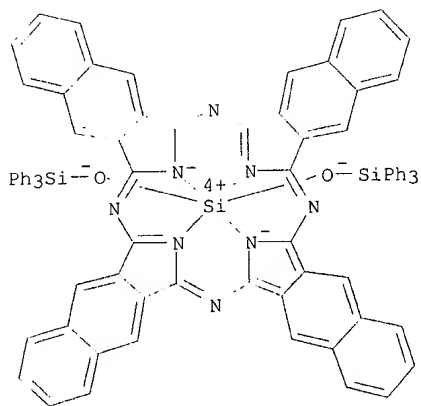


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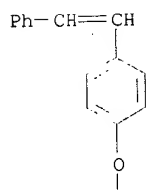


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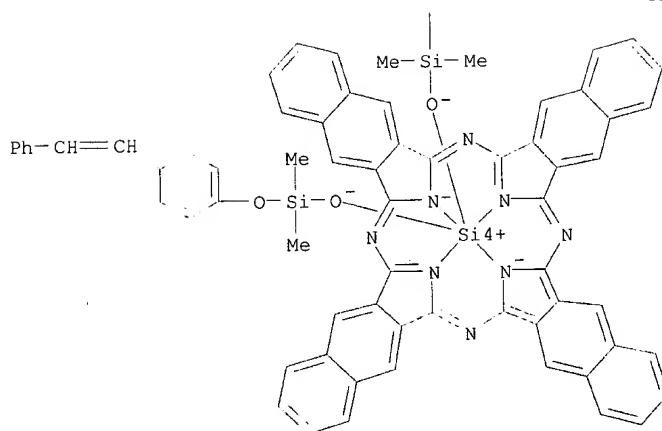


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PAGE 2-A



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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:684455 HCAPLUS

DOCUMENT NUMBER: 129:317583

TITLE: Hybrid phthalocyanine derivatives and their uses in
immunoassays and nucleic acid assays

INVENTOR(S): Buechler, Kenneth F.; Noar, Joseph
B.; Tadesse, Lema

PATENT ASSIGNEE(S): Biosite Diagnostics Incorporated, USA

SOURCE: U.S., 57 pp., Cont.-in-part of U.S. Ser. No. 274,534.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5824799	A	19981020	US 1996-620597	19960322
US 6238931	B1	20010529	US 1994-274534	19940712
US 5763189	A	19980609	US 1994-311098	19940923
US 2002061602	A1	20020523	US 2001-776599	20010201

PRIORITY APPLN. INFO.: US 1993-126367 B2 19930924
US 1993-138708 B2 19931018
US 1994-274534 A2 19940712
US 1994-311098 A2 19940923
US 1995-409825 A2 19950323
WO 1994-US10826 W 19940923
US 1995-409298 A2 19950323
US 1996-620597 A1 19960322
US 1998-66255 A2 19980424

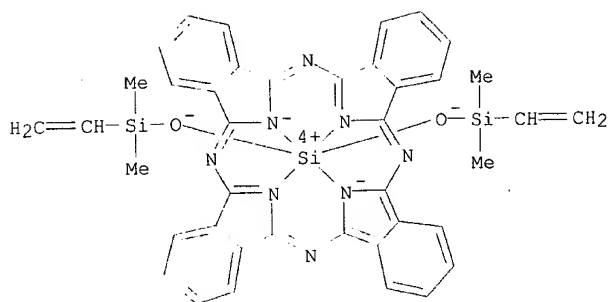
AB Water sol. hybrid phthalocyanine derivs. having (1) at least one donor subunit with a desired excitation peak and (2) at least one acceptor subunit with a desired emission peak, wherein the derivs. are capable of intramol. energy transfer from the donor subunit to the acceptor subunit, are synthesized. Such derivs. also may contain an electron transfer subunit. Axial ligands may be covalently bound to the metals contained in the water sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins, and nucleic acids can be linked to the axial ligands of the dyes to form dye conjugates useful in immunoassays and nucleic acid assays.

IT 68812-20-4P 92396-89-9P 163968-88-5P
163968-89-6P 163968-92-1P 163968-94-3P
163968-95-4P 163969-09-3P 163969-10-6P
183872-63-1P 209161-30-8P 209161-31-9P
209161-33-1P

RI: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(prepn. of hybrid phthalocyanine derivs. for uses in immunoassays and nucleic acid assays)

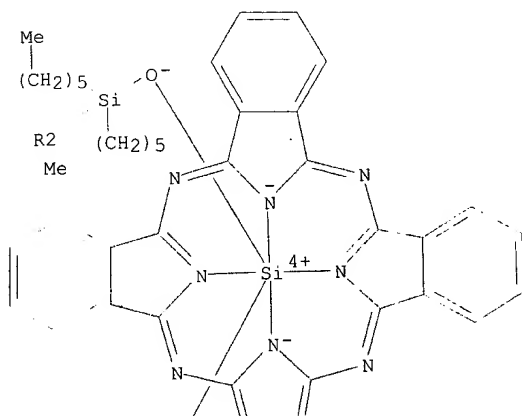
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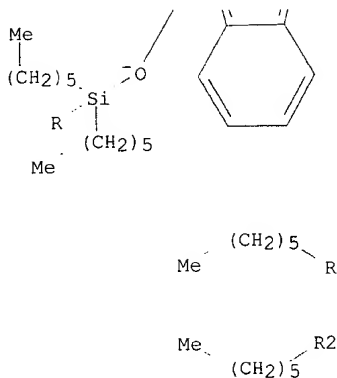
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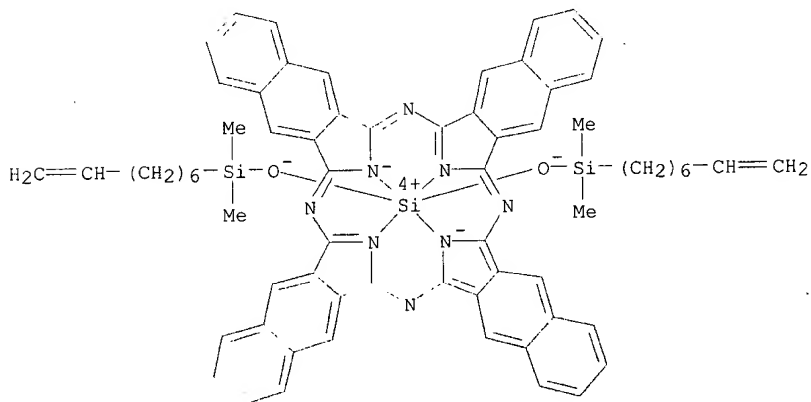
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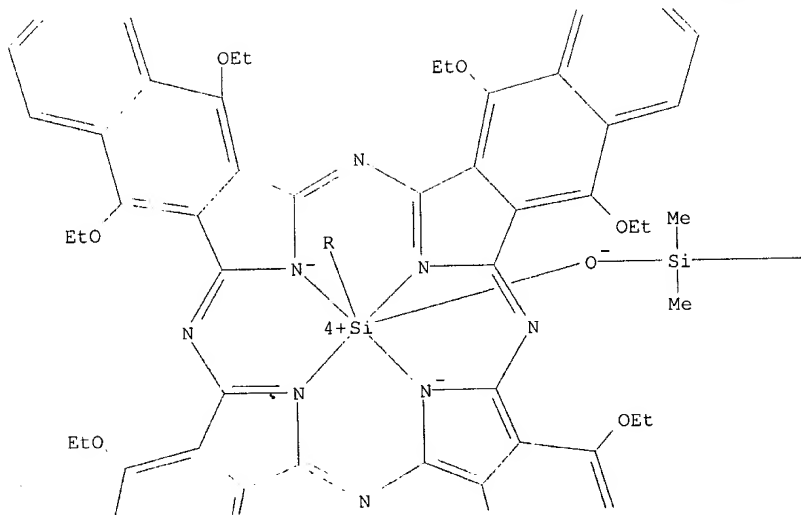


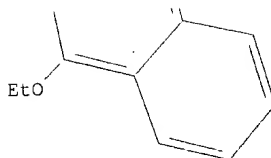
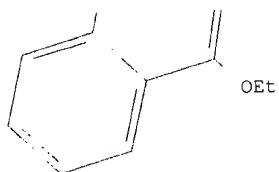
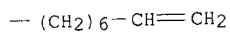


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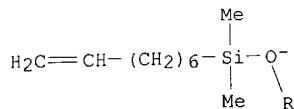


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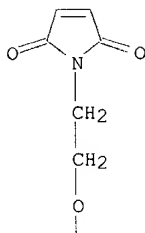


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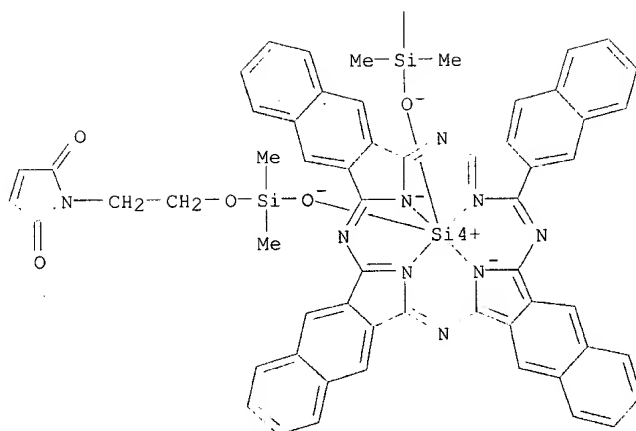


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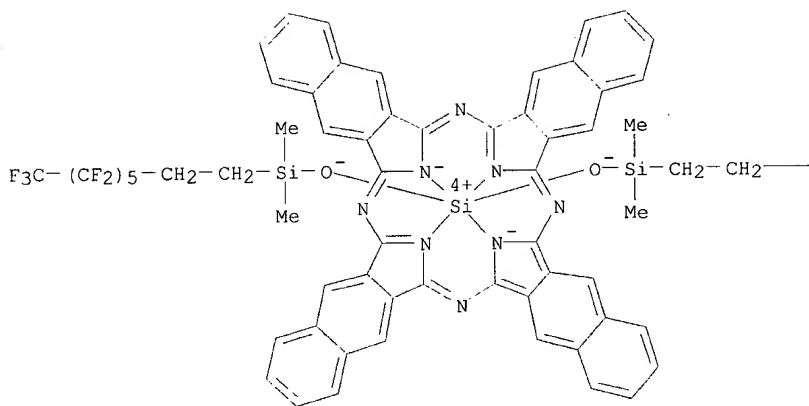


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PAGE 1-A

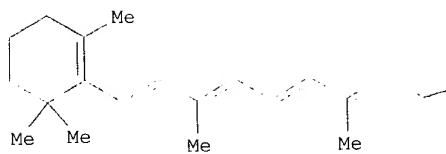


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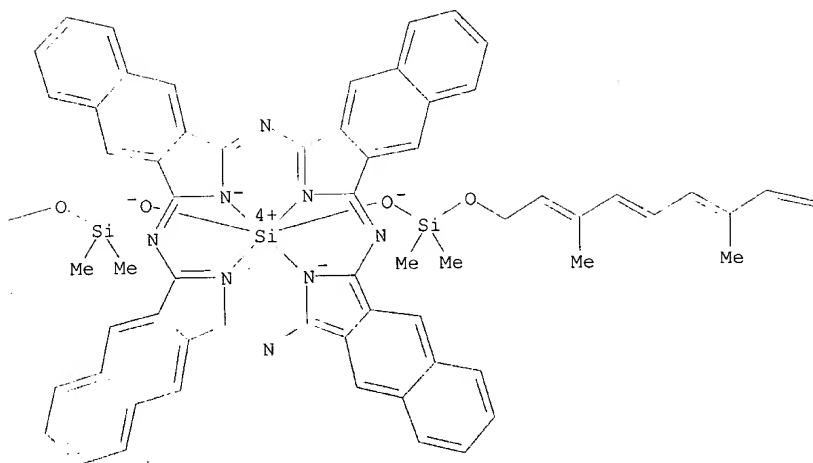
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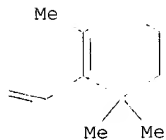
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PAGE 1-A

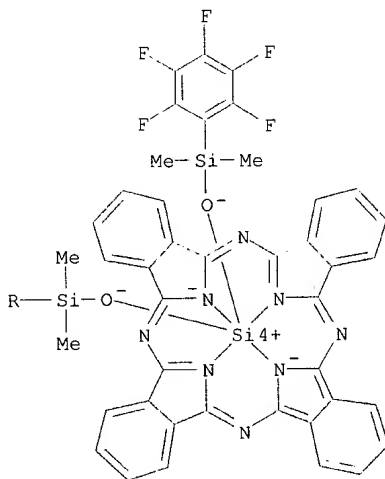


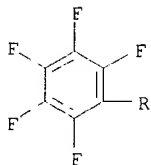
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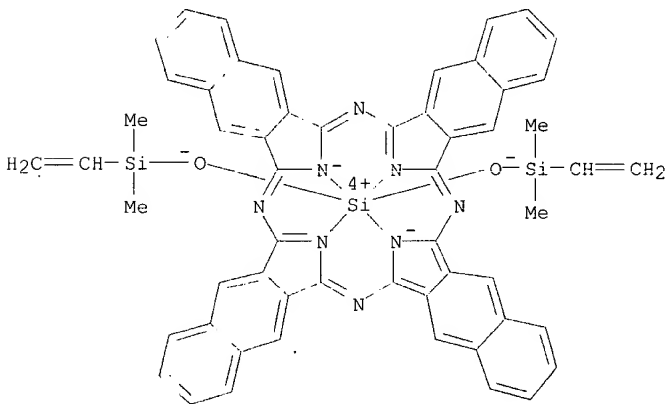


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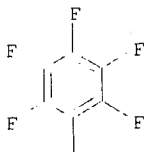


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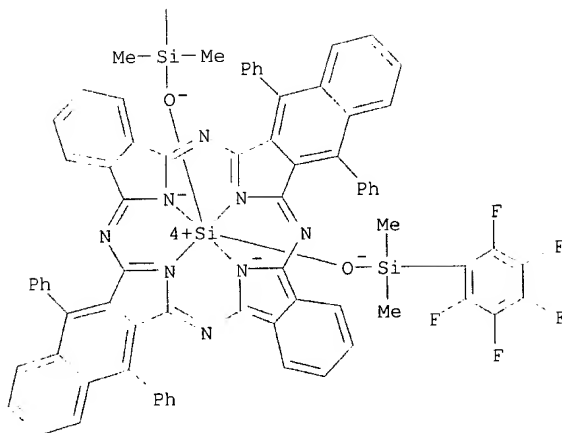


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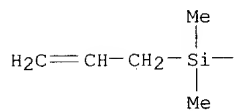


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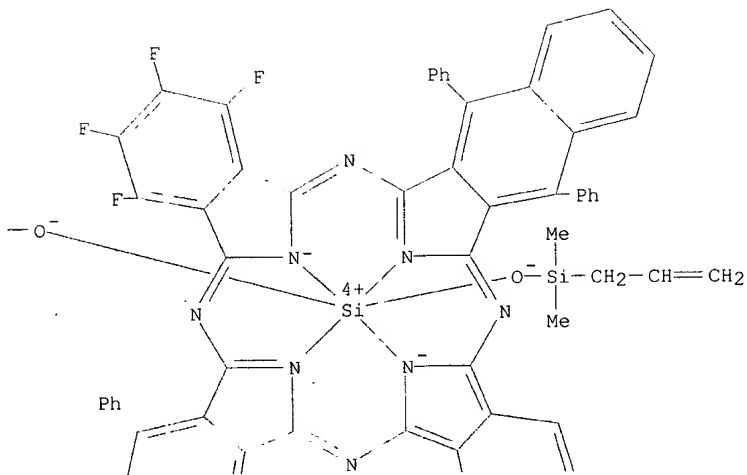


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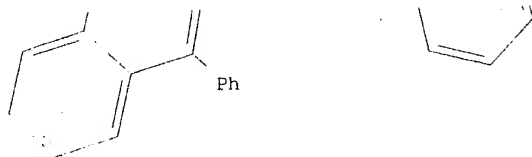
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PAGE 1-B

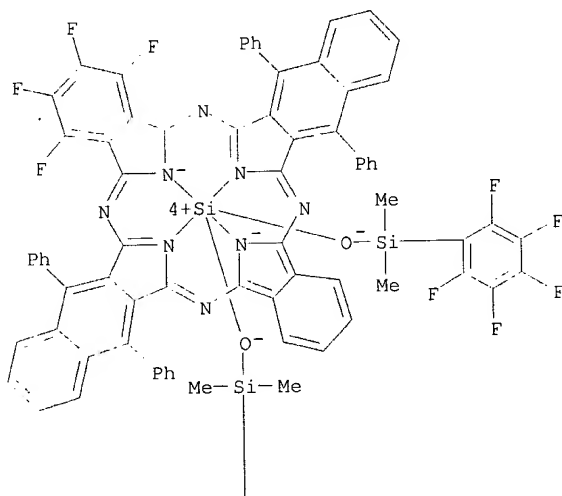


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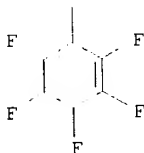


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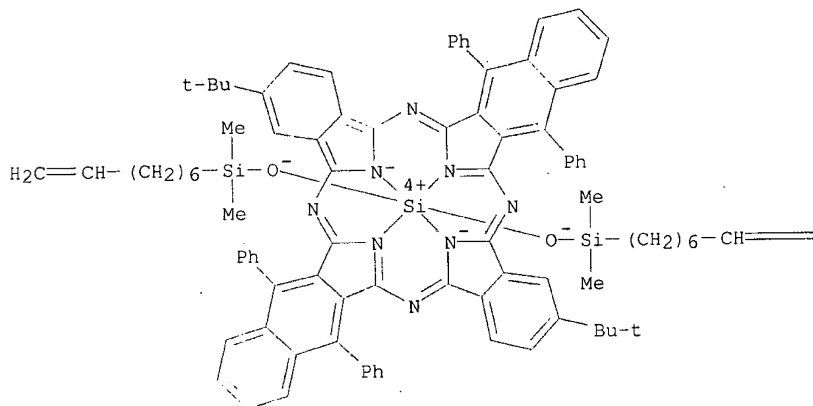
PAGE 2-A



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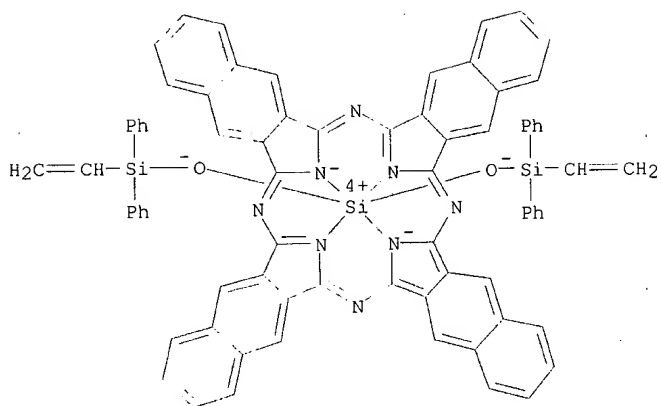
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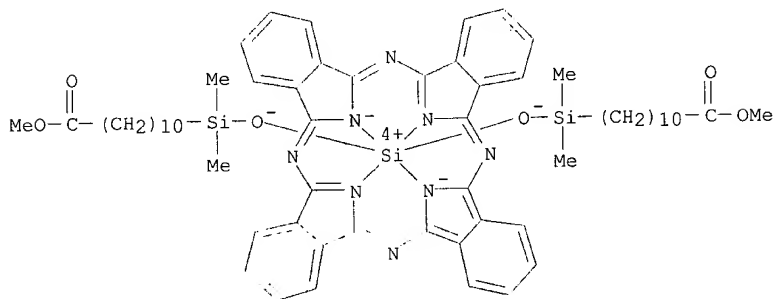
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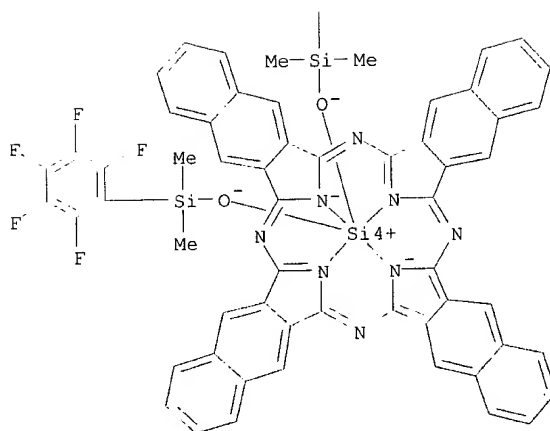
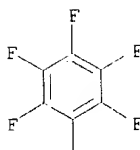
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 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of hybrid phthalocyanine derivs. for uses in immunoassays and
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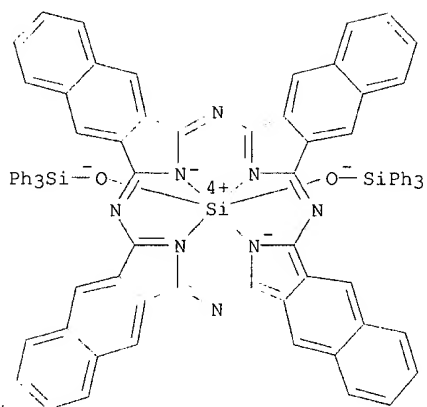
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 (OC-6-12)-(9CI) (CA INDEX NAME)



RN 163969-11-7 HCAPLUS
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 NAME)

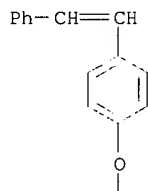


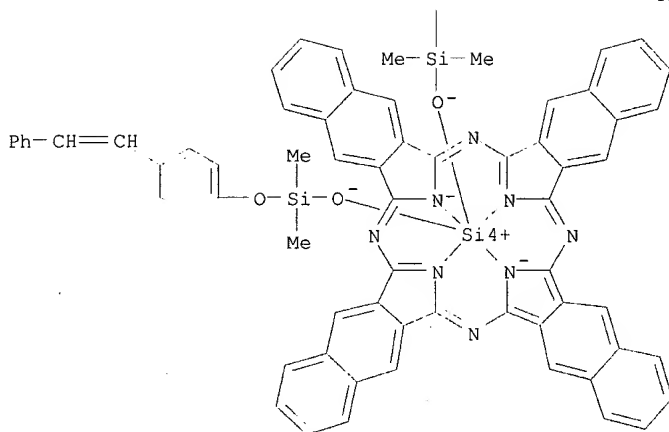
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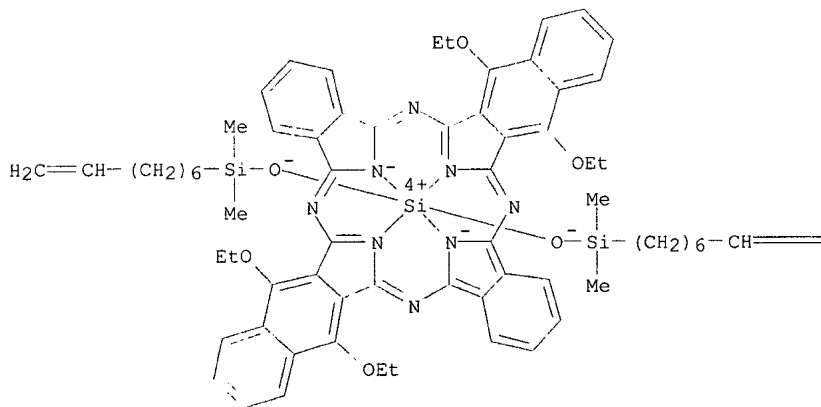
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 (OC-6-12)-(9CI) (CA INDEX NAME)

PAGE 1-A





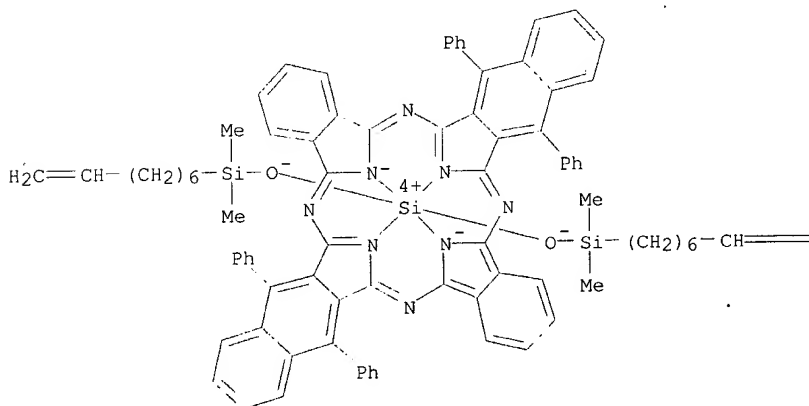
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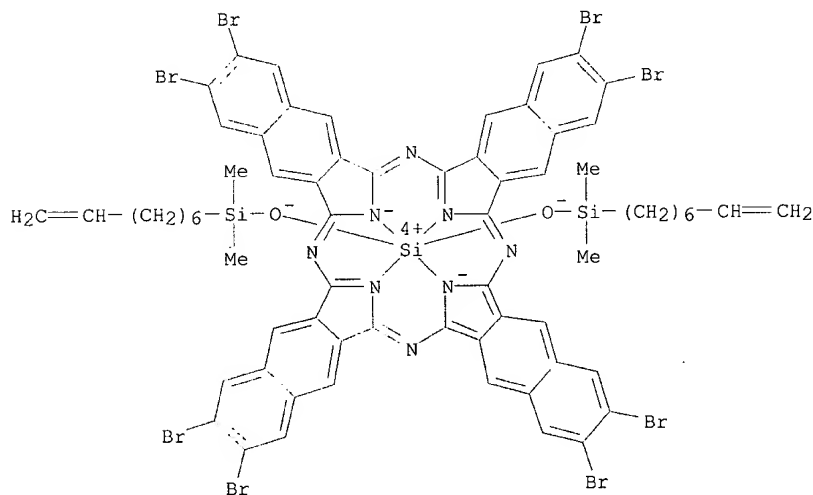
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CH₂

RN 183872-66-4 HCAPLUS
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RN 209161-25-1 HCAPLUS
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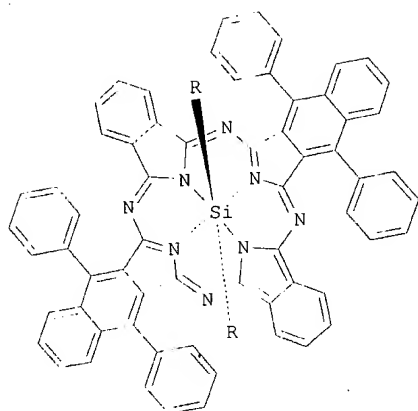
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L31 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1998:392268 HCAPLUS

Epperson 09/776,599

DOCUMENT NUMBER: 129:78836
TITLE: Fluorescence energy transfer and intramolecular energy transfer in particles using novel compounds for the application in immunoassays and nucleic acid assays
INVENTOR(S): Buechler, Kenneth F.; Noar, J. Barry
; Tadesse, Lema
PATENT ASSIGNEE(S): Biosite Diagnostics Inc., USA
SOURCE: U.S., 36 pp., Cont.-in-part of U. S. Ser. No. 274,534.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 5763189	A	19980609	US 1994-311098	19940923
US 6238931	B1	20010529	US 1994-274534	19940712
US 6251687	B1	20010626	US 1995-409298	19950323
US 5824799	A	19981020	US 1996-620597	19960322
US 2002061602	A1	20020523	US 2001-776599	20010201
PRIORITY APPLN. INFO.:			US 1993-126367	B2 19930924
			US 1993-138708	B2 19931018
			US 1994-274534	A2 19940712
			US 1994-311098	A2 19940923
			WO 1994-US10826	W 19940923
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			US 1995-409825	A2 19950323
			US 1996-620597	A1 19960322
			US 1998-66255	A2 19980424
OTHER SOURCE(S):	MARPAT 129:78836			
GI				



I



AB The invention concerns the synthesis of novel dyes and methods for the detection or visualization of analytes; more specifically fluorescent latex particles which randomly incorporate the novel fluorescent dyes and utilize fluorescent energy transfer and intramol. energy transfer, for the detection of analytes in immunoassays or in nucleic acid assay. Particles comprise an energy donor as a first component and a fluorescent dye as a second component that are positioned at an energy exchanging distance from one another; the two components have a Stokes shift of greater than or equal to 50 nm; and the particles bind on the surface a protein, polypeptide, nucleic acid, nucleotide or protein contg. ligand analog. In addn., novel fluorescent dyes (e.g., I) are described which exhibit intramol. energy transfer for use to label various mols., proteins, polypeptides, nucleotides and nucleic acids or to incorporate into particles. Compns. are given to minimize fluorescence quenching and to maximize fluorescence intensities of the dye mols. in the particles through the use of different dye mols. which posses the same or very similar excitation and emission wavelengths. Many novel phthalocyanine derivs. and hybrid phthalocyanine derivs. are disclosed. Thus latex microparticles have at least one hybrid phthalocyanine deriv., that deriv. has at least one donor subunit with a desired excitation peak; and at least one acceptor unit with desired emission peak. The deriv.(s) is/are capable of intramol. energy transfer from the donor subunit to the acceptor subunit; such derivs. also may contain an electron transfer subunit. Axial ligands may covalently bound to the metals contained in the hybrid phthalocyanine derivs. Numerous compds. capable of intramol. energy transfer as well as compds. for fluorescence energy transfer were synthesized.

IT 68812-20-4P 92396-89-9P 163968-88-5P
163968-89-6P 163968-92-1P 163968-94-3P
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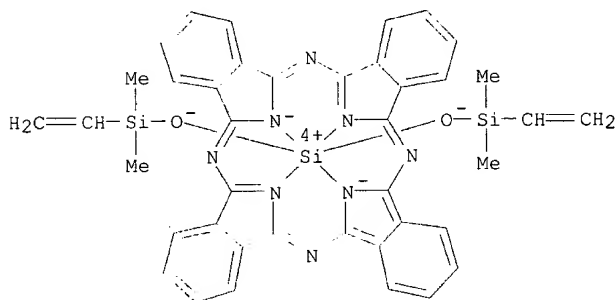
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RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

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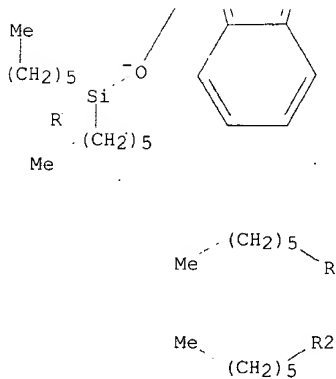
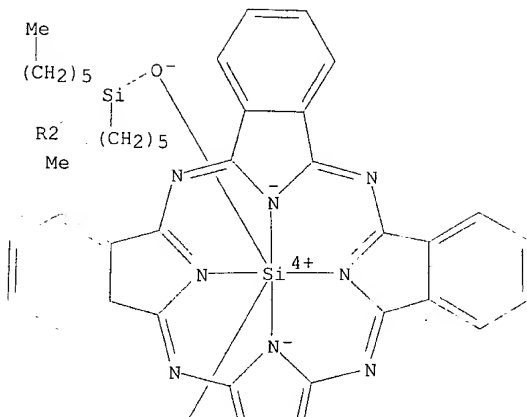
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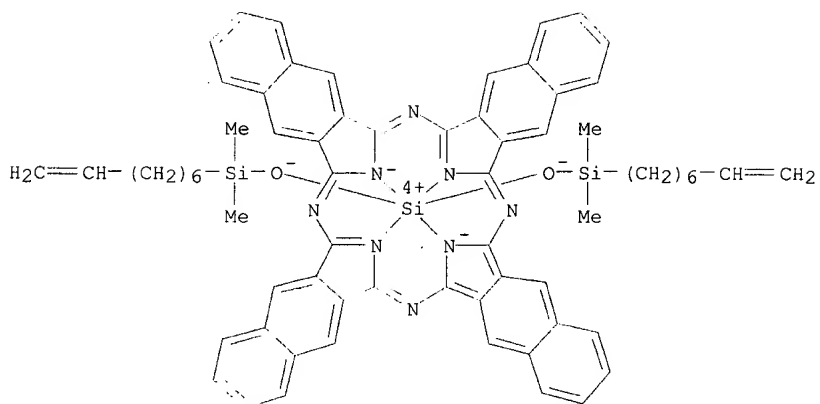


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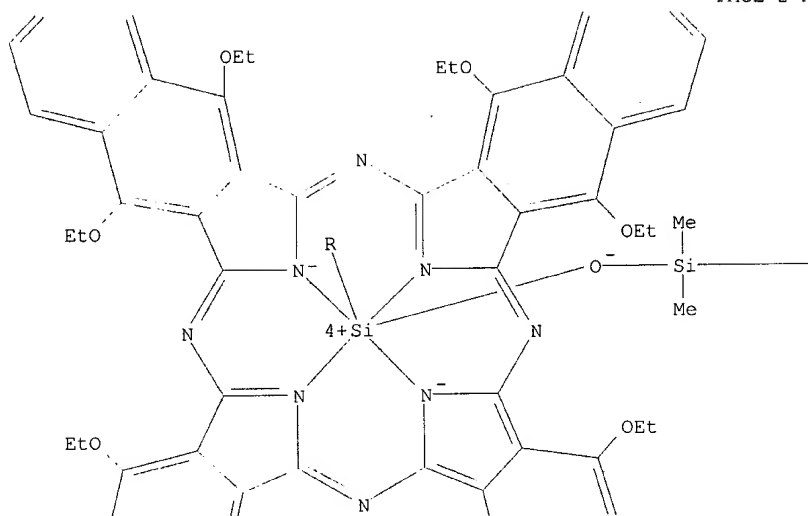
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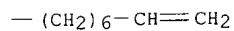
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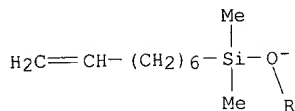
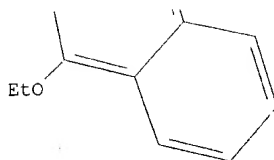
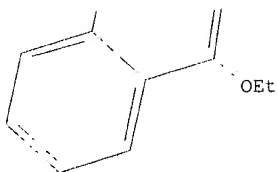
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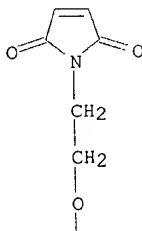


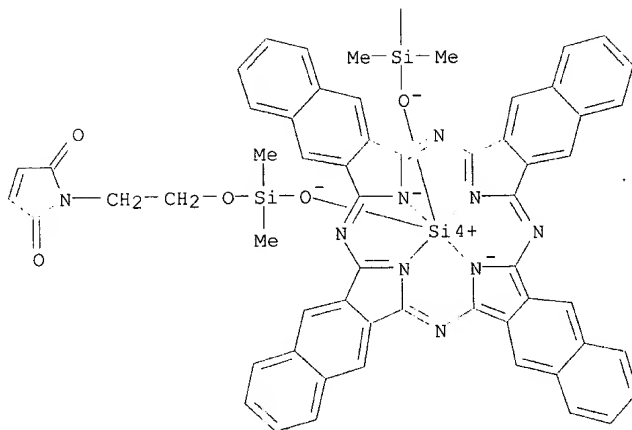
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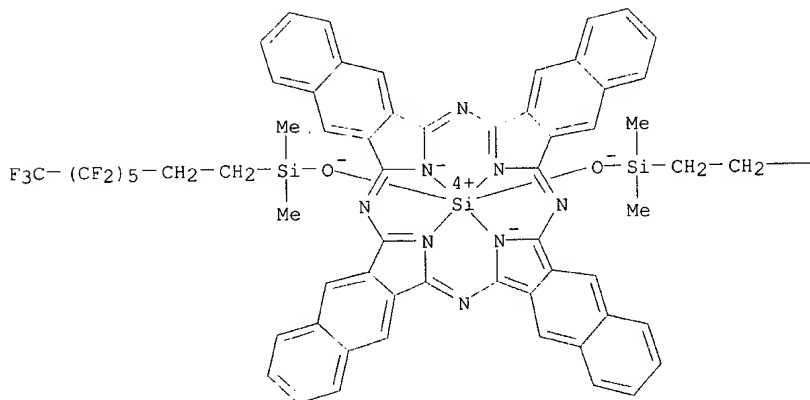


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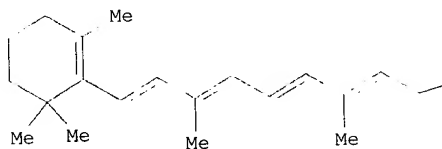
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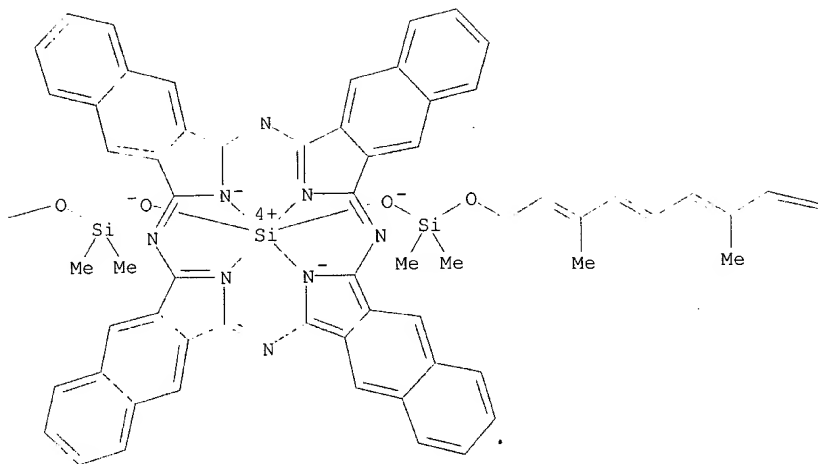
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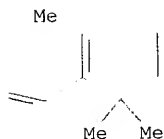
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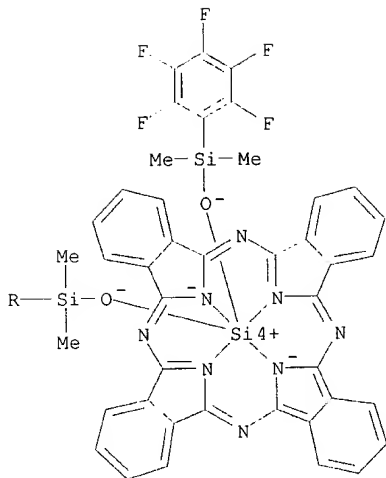


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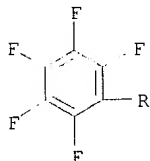


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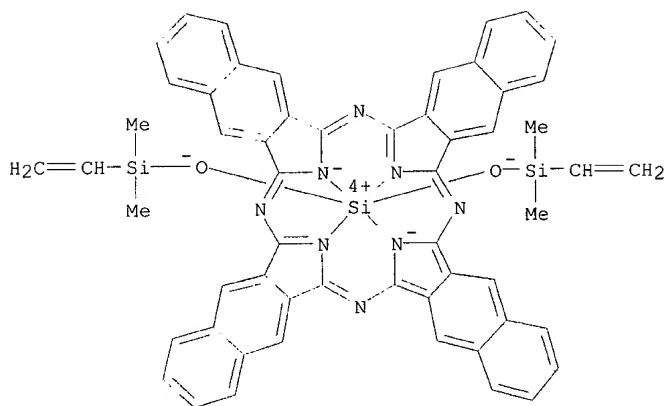
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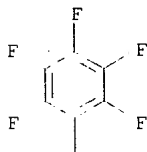


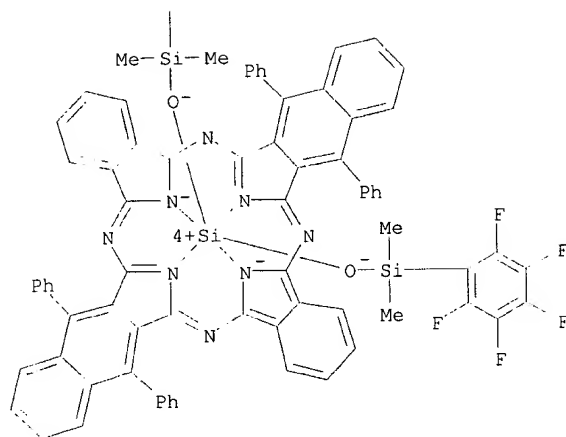
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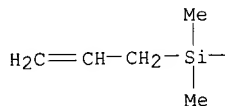
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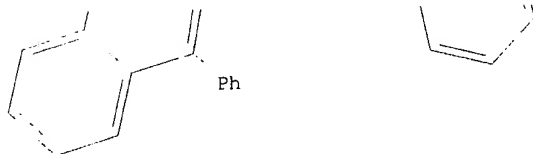
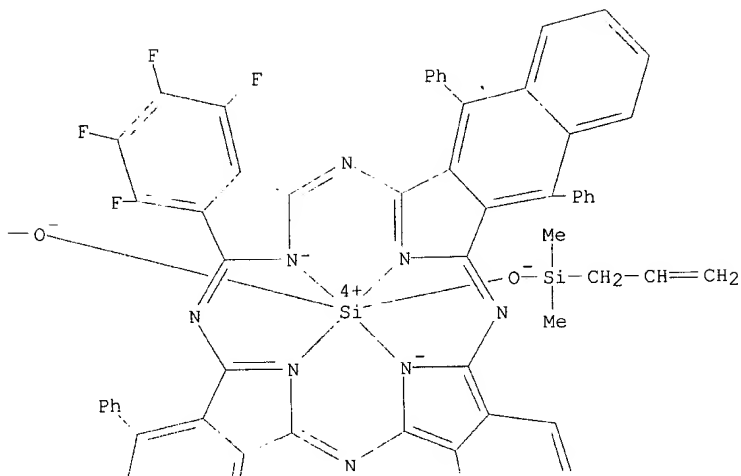
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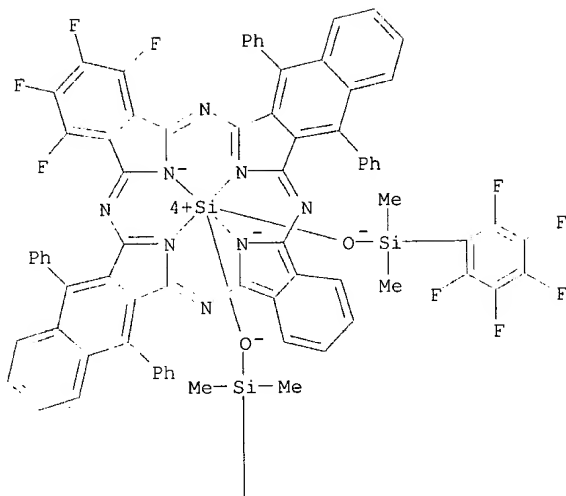
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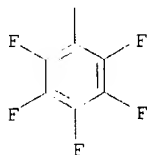


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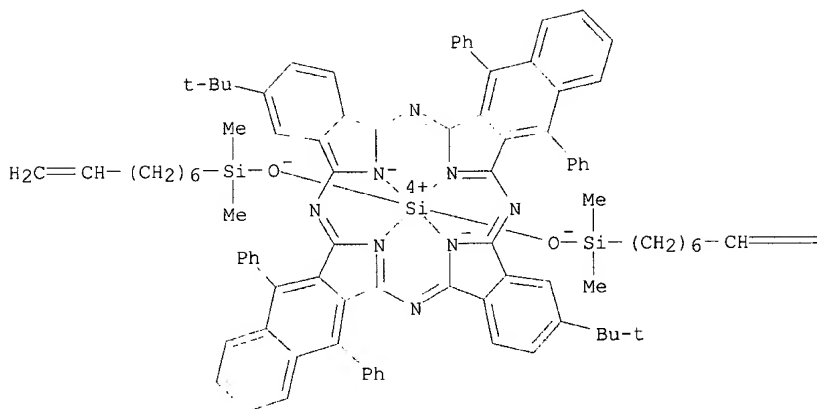
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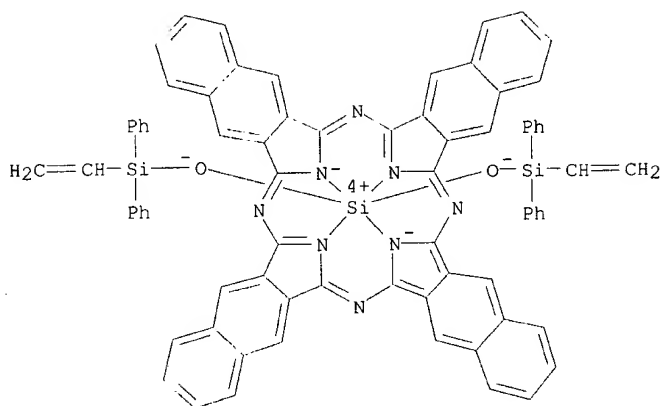
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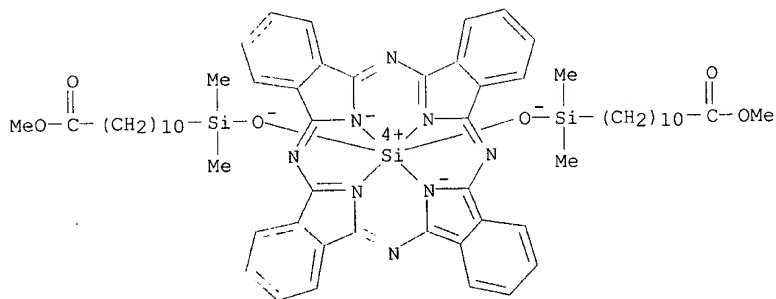
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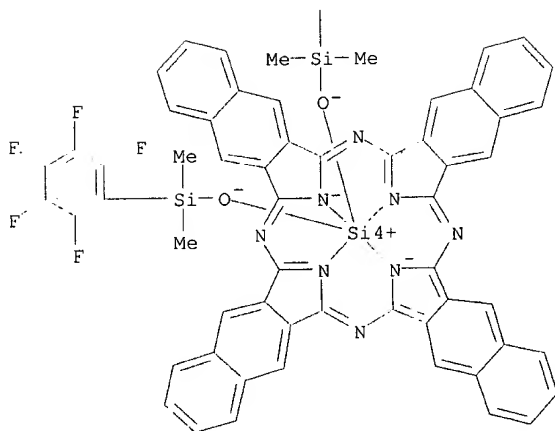
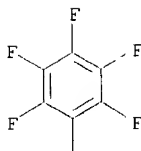
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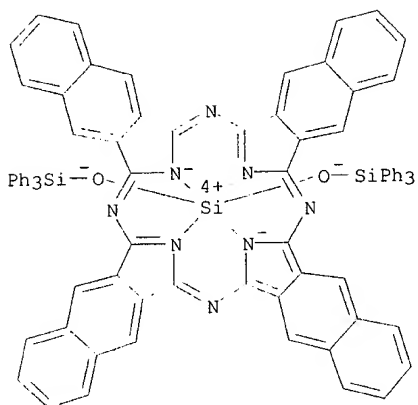
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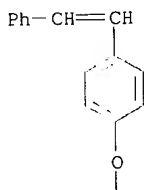


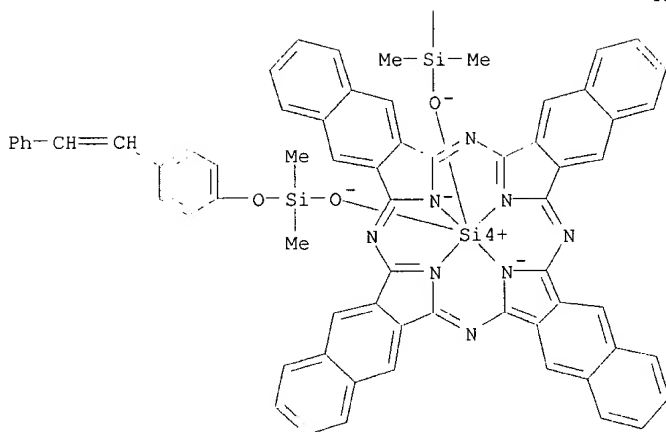
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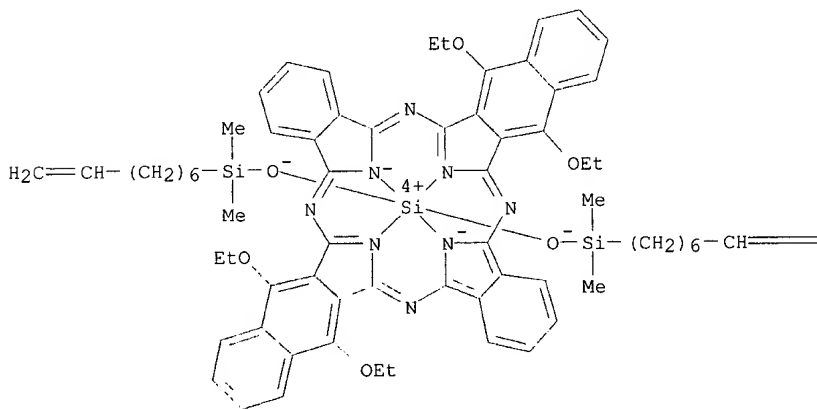
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 (OC-6-12)-(9CI) (CA INDEX NAME)

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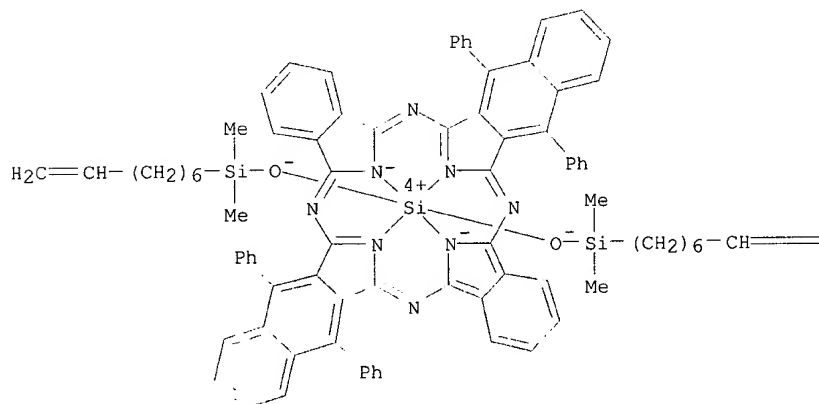
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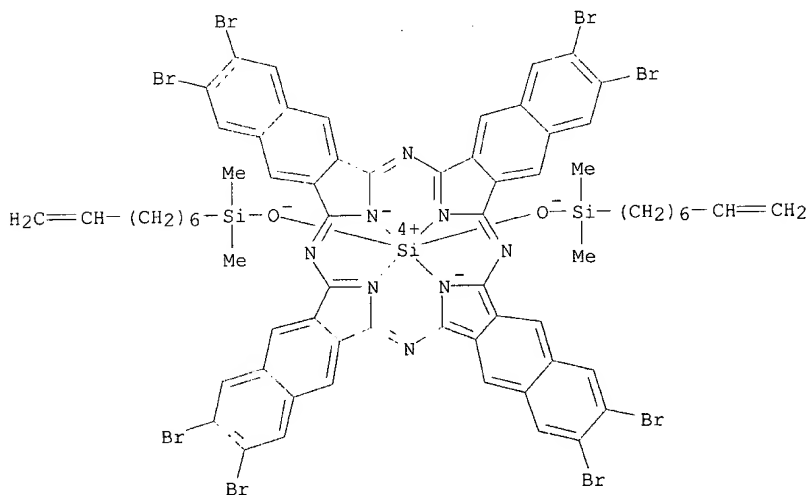
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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1996:761698 HCAPLUS

DOCUMENT NUMBER: 126:33023
 TITLE: Hybrid phthalocyanine derivatives and their uses
 INVENTOR(S): Buechler, Kenneth F.; Noar, Joseph
 B.; Tadesse, Lema
 PATENT ASSIGNEE(S): Biosite Diagnostics Incorporated, USA
 SOURCE: PCT Int. Appl., 190 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
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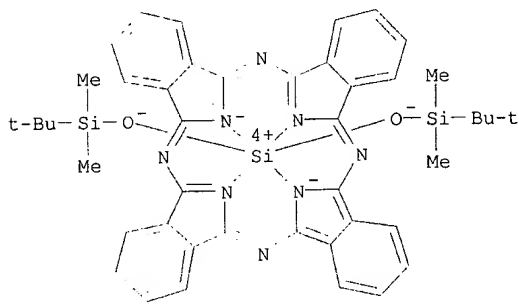
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RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML			
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R:	AT, CH, DE, ES, FR, GB, IT, LI, NL			
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PRIORITY APPLN. INFO.:			US 1995-409825 A	19950323
			WO 1996-US3833 W	19960322
AB	Water-sol. hybrid phthalocyanine derivs., fluorescent latex particles incorporating which are useful in competitive and noncompetitive immunoassays and nucleic acid assays, have (1) .gtoreq.1 donor subunit with a desired excitation peak and (2) .gtoreq.1 acceptor subunit with a desired emission peak, and are capable of intramol. energy transfer from the donor subunit to the acceptor subunit. They may also contain an electron-transfer subunit. Axial ligands may be covalently bound to the metals contained in the water-sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins, and nucleic acids can be linked to the axial ligands of the dyes to form conjugates useful in immunoassays and nucleic acid assays.			
IT	67881-06-5P 68812-20-4P 92396-89-9P, Bis[(trihexylsilyl)oxy]silicon phthalocyanine 142700-81-ODP, sulfonated 149971-18-6P 153454-01-4P 163968-88-5P 163968-89-6P 163968-91-0P, Silicon, bis(ethenyldiphenylsilanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrizinato(2-)-N37,N38,N39,N40]-, (OC-6-12)- 163968-92-1P 163968-94-3P 163968-95-4P 163969-07-1P 163969-08-2P 163969-09-3P 163969-10-6P 163969-11-7P 163969-15-1P 183872-48-2P 183872-55-1P 183872-56-2P 183872-57-3DP, sulfonated 183872-57-3P 183872-61-9P 183872-62-0P 183872-63-1P 183872-66-4P 183872-71-1P 183872-72-2P 183872-74-4P 183872-76-6P 183872-77-7P 183872-79-9P 183872-81-3P 183872-82-4P 183872-84-6P 183872-94-8P 183872-95-9P 183872-96-0P 183872-98-2P 183872-99-3P 183873-03-2P 183873-11-2DP, sulfonated			

183873-13-4DP, sulfonated 183873-14-5DP, sulfonated
183873-15-6DP, sulfonated 183873-17-8DP, sulfonated
183873-19-0P 183873-20-3P 183973-58-2P
183973-60-6P 184013-80-7P

RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of water-sol. fluorescent hybrid phthalocyanine derivs. for
immunoassays)

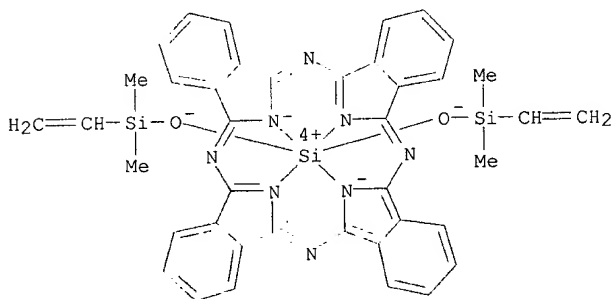
RN 67881-06-5 HCAPLUS

CN Silicon, bis[(1,1-dimethylethyl)dimethylsilanolato][29H,31H-
phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-,
(OC-6-12)- (9CI) (CA INDEX NAME)



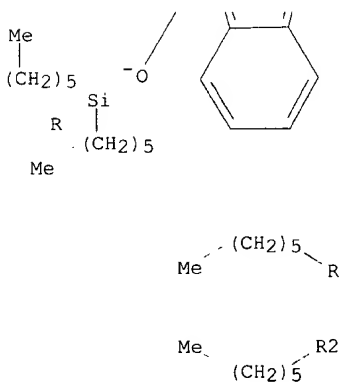
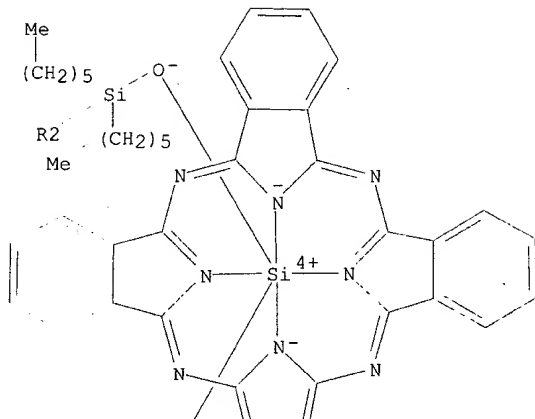
RN 68812-20-4 HCAPLUS

CN Silicon, bis(ethenyldimethylsilanolato)[29H,31H-phthalocyaninato(2-)-
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NAME)

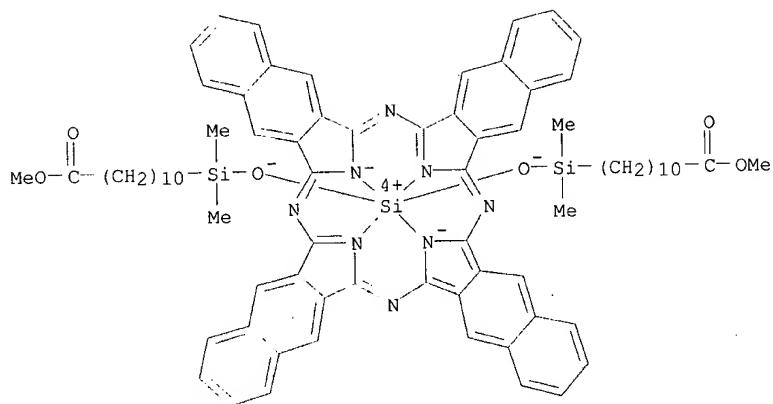


RN 92396-89-9 HCAPLUS

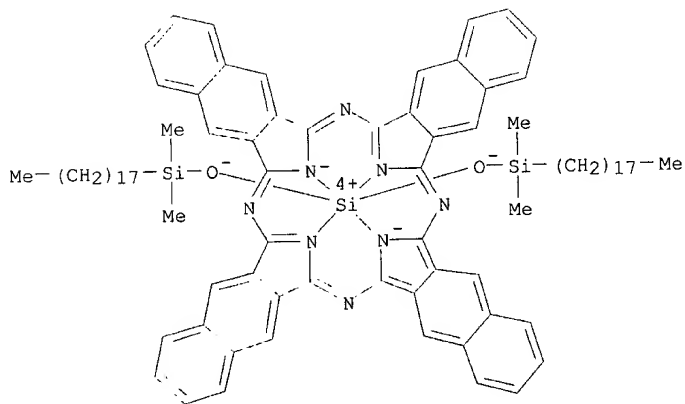
CN Silicon, [29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.k
appa.N32]bis(trihexylsilanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)



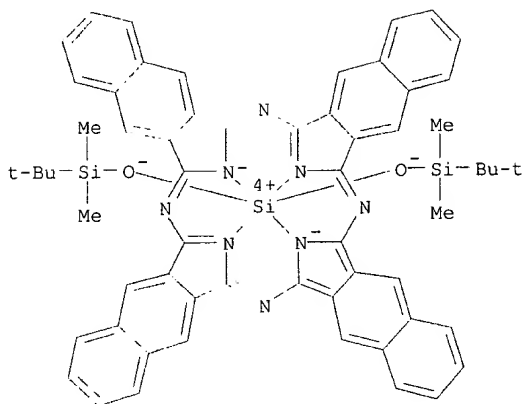
RN 142700-81-0 HCAPLUS
 CN Silicon, bis[methyl 11-[(hydroxy-.kappa.O)dimethylsilyl]undecanoato] [37H, 3
 9H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-l:2''',3''''-q]porphyrinato(2-)-
 .kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX
 NAME)



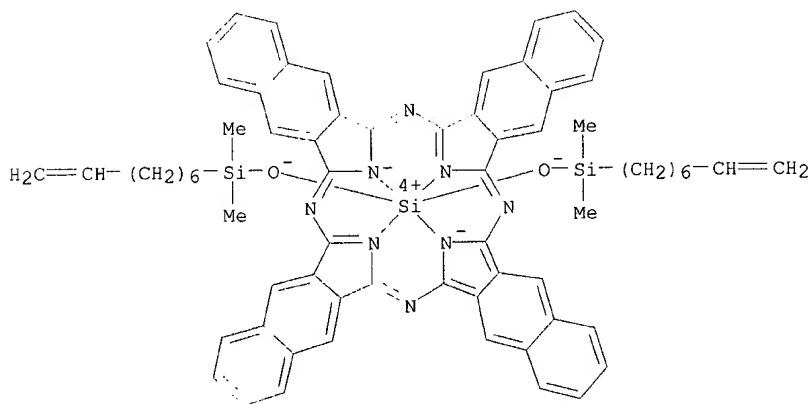
RN 149971-18-6 HCAPLUS
 CN Silicon, bis(dimethyloctadecylsilanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)



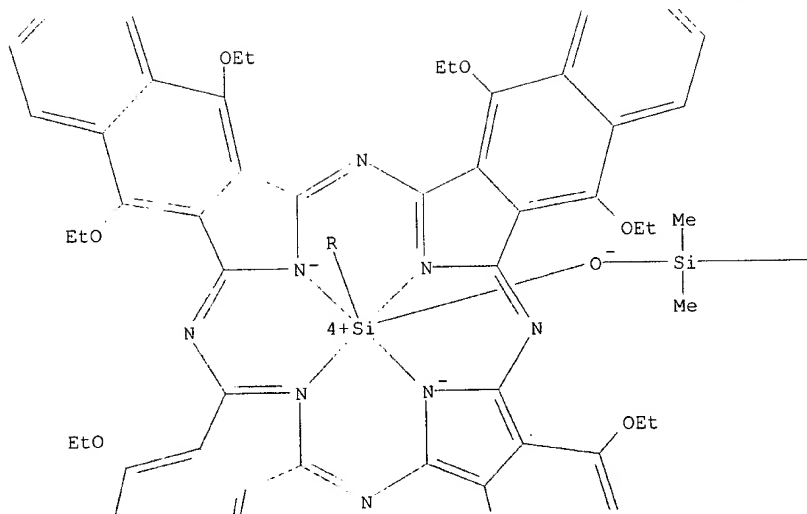
RN 153454-01-4 HCAPLUS
 CN Silicon, bis[(1,1-dimethylethyl)dimethylsilanolato][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

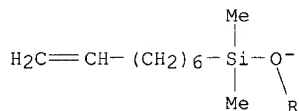
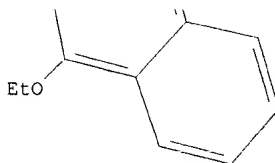
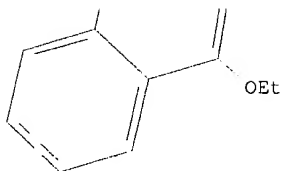
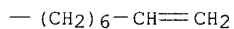


RN 163968-88-5 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-1:2''',3'''-g]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

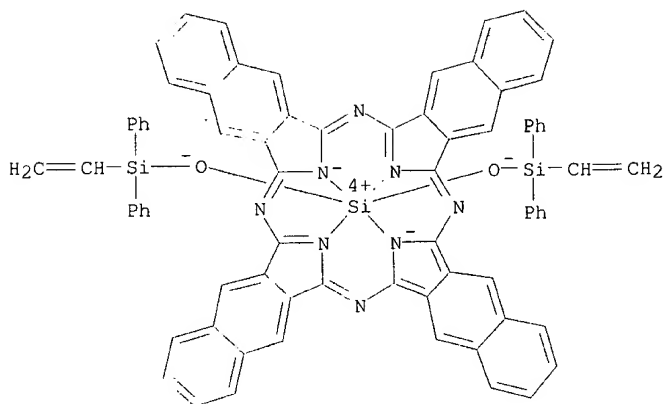


RN 163968-89-6 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato)[5,9,14,18,23,27,32,36-octaethoxy-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-1:2''',3'''-g]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)



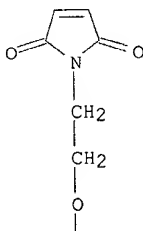


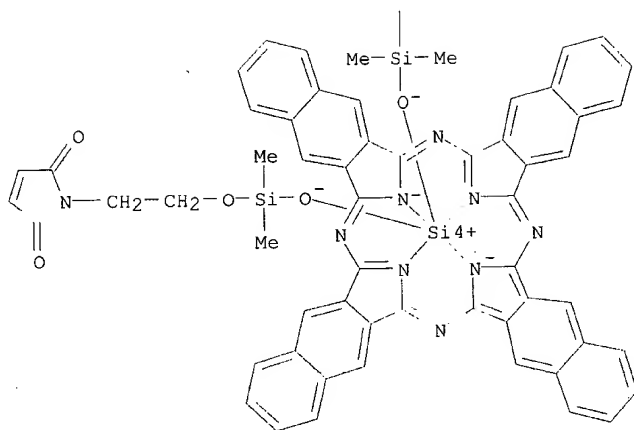
RN 163968-91-0 HCAPLUS
 CN Silicon, bis(ethenyldiphenylsilanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)-(9CI) (CA INDEX NAME)



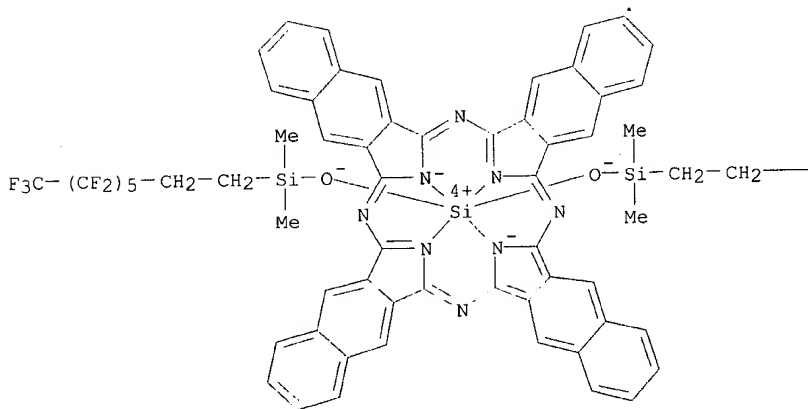
RN 163968-92-1 HCAPLUS
 CN Silicon, bis[1-[2-[[(hydroxy-.kappa.O)dimethylsilyl]oxy]ethyl]-1H-pyrrole-
 2,5-dionato] [37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-
 q]porphyrinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-,
 (OC-6-12)-(9CI) (CA INDEX NAME)

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RN 163968-94-3 HCAPLUS
 CN Silicon, bis[dimethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silanolato-.kappa.O][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-1:2'',3'''-q]porphyrinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

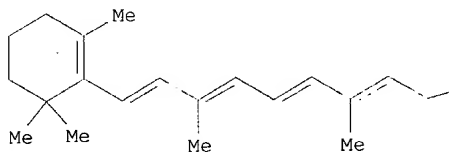


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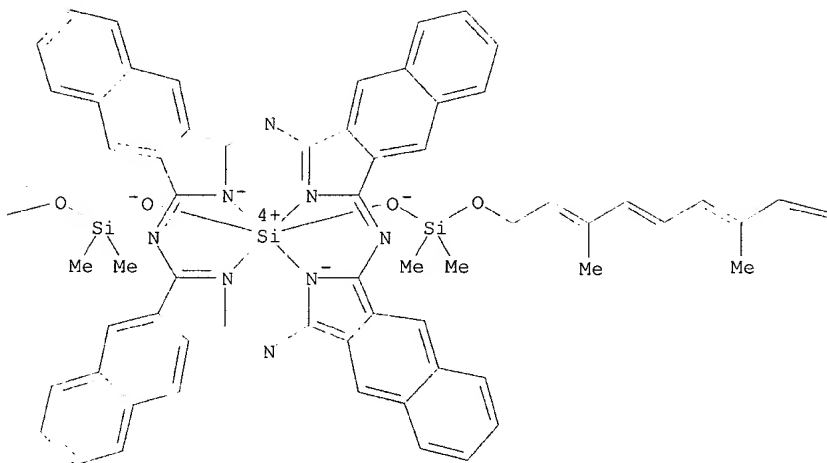
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RN 163968-95-4 HCAPLUS
CN Silicon, bis[[[(2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4,6,8-nonatetraenyl]oxy]dimethylsilanolato][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

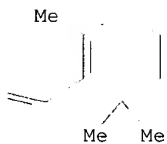
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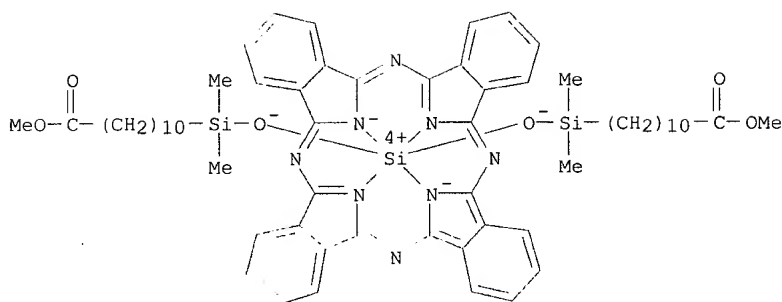
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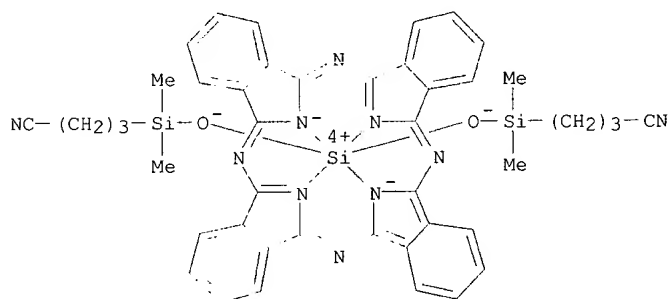
PAGE 1-C



RN 163969-07-1 HCAPLUS
 CN Silicon, bis[methyl 11-[(hydroxy-.kappa.O)dimethylsilyl]undecanoato][29H,3
 1H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-,
 (OC-6-12)- (9CI) (CA INDEX NAME)

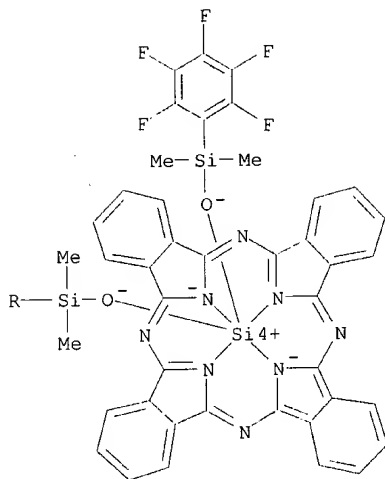


RN 163969-08-2 HCAPLUS
 CN Silicon, bis[4-[(hydroxy-.kappa.O)dimethylsilyl]butanenitrilato][29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-,
 (OC-6-12)- (9CI) (CA INDEX NAME)

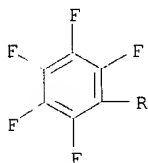


RN 163969-09-3 HCAPLUS
 CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O][29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-,
 (OC-6-12)- (9CI) (CA INDEX NAME)

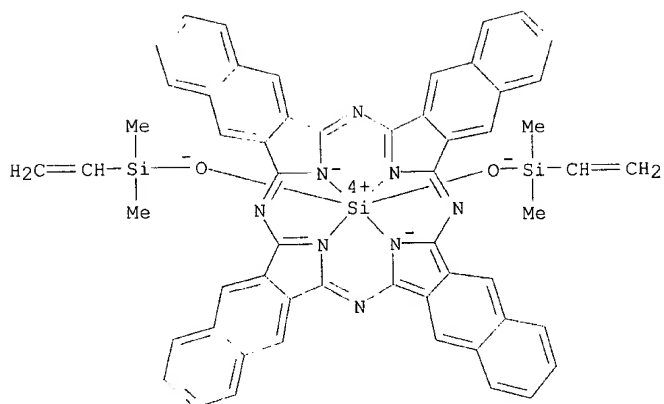
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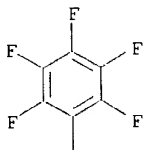


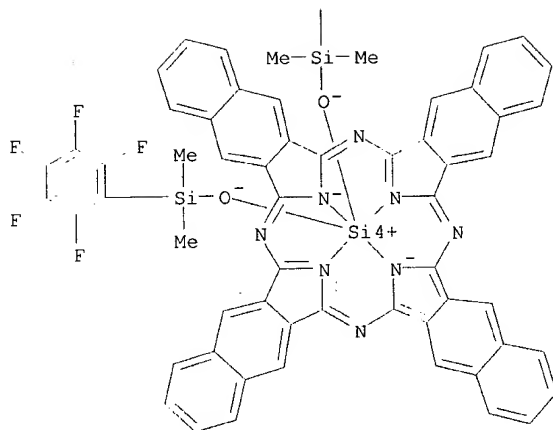
RN 163969-10-6 HCAPLUS
 CN Silicon, bis(ethenyldimethylsilanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)



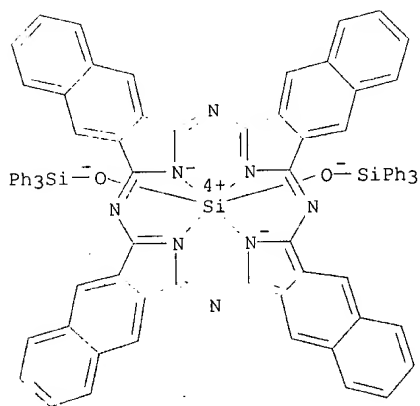
RN 163969-11-7 HCAPLUS
 CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O] [37H, 39H-
 tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrinato(2-)-
 .kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX
 NAME)

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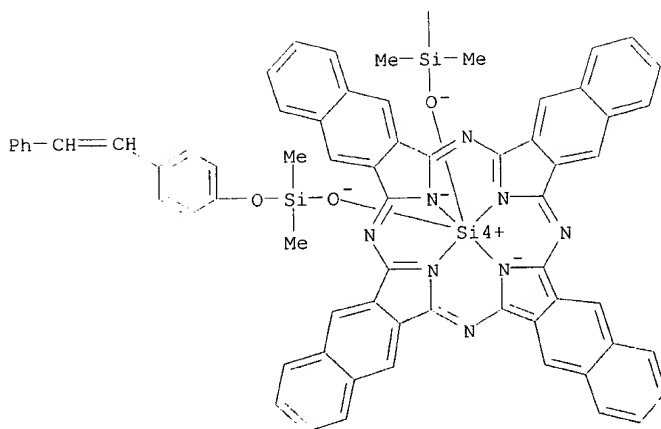
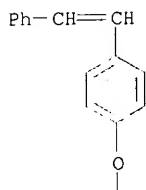




RN 163969-15-1 HCAPLUS
 CN Silicon, [37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]bis(triphenylsilanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)

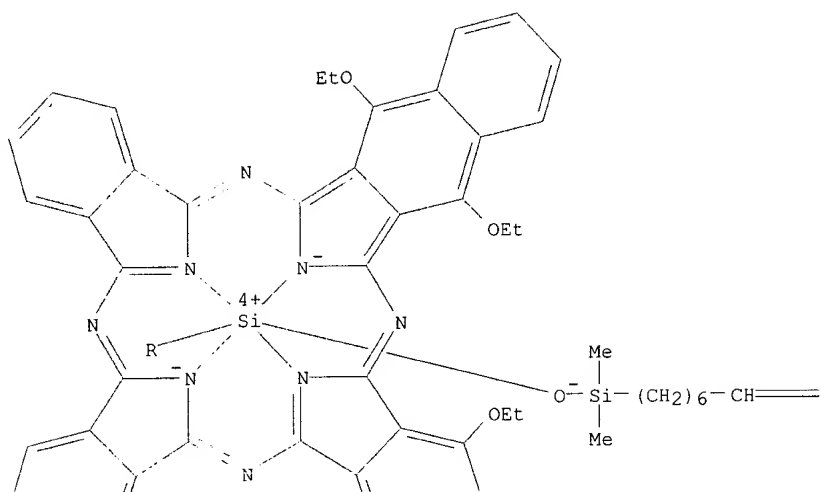


RN 183872-48-2 HCAPLUS
 CN Silicon, bis[dimethyl[4-[(1E)-2-phenylethenyl]phenoxy]silanolato-.kappa.O][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)



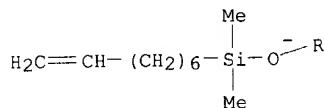
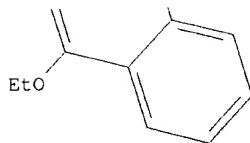
RN 183872-55-1 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato) [5,23,28,32-tetraethoxy-33H,35H-dibenzo[b,g]dinaphtho[2,3-1:2',3'-q]porphyrizinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-13)- (9CI) (CA INDEX NAME)

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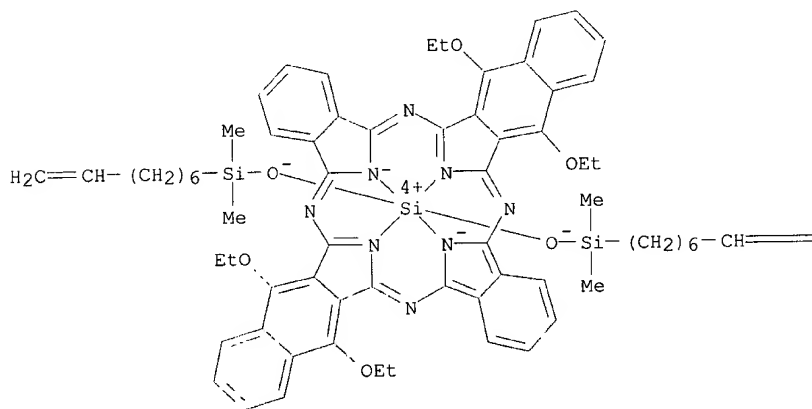


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$=\text{CH}_2$

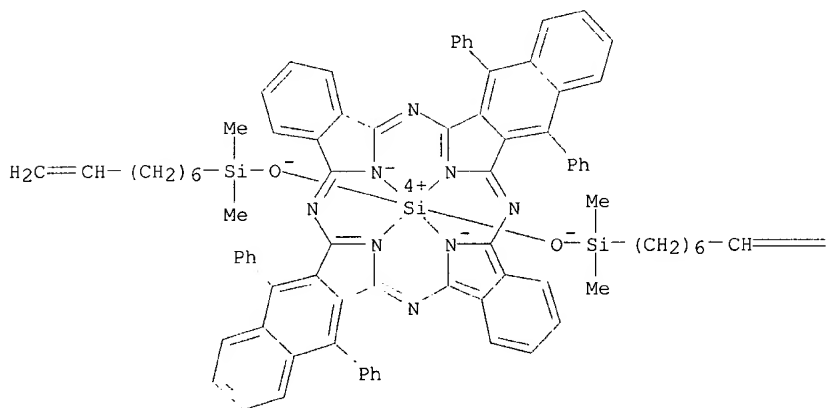


RN 183872-56-2 HCAPLUS
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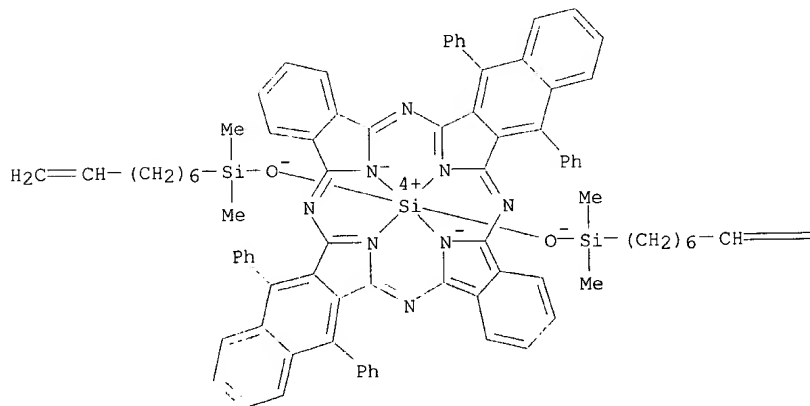
RN 183872-57-3 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato)[8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-g]porphyrazinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)



=CH₂

RN 183872-57-3 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato) [8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrizinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

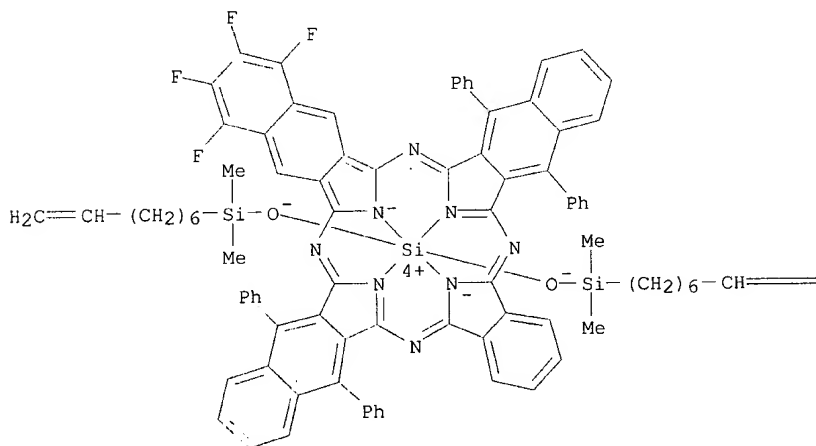
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=CH₂

RN 183872-61-9 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato) [1,2,3,4-tetrafluoro-9,14,25,30-tetraphenyl-35H,37H-benzo[b]trinaphtho[2,3-g:2',3'-l:2'',3''-q]porphyrinato(2-)-.kappa.N35,.kappa.N36,.kappa.N37,.kappa.N38]-, (OC-6-12)- (9CI) (CA INDEX NAME)

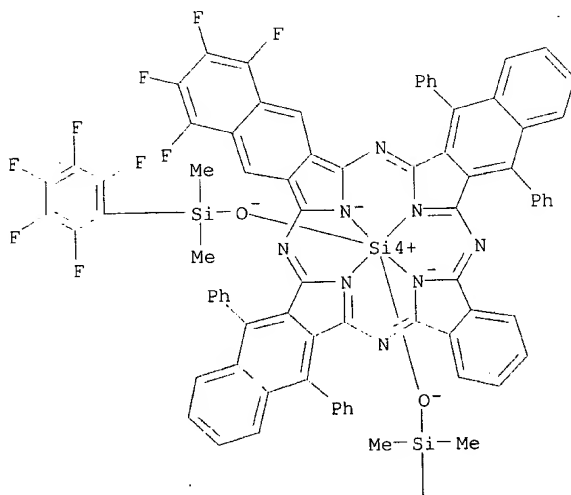
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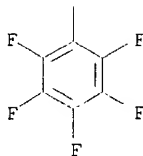
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RN 183872-62-0 HCAPLUS
 CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato- κ O][1,2,3,4-tetrafluoro-9,14,25,30-tetraphenyl-35H,37H-benzo[b]trinaphtho[2,3-g:2',3'-1:2'',3''-q]porphyrazinato(2-)- κ N35, κ N36, κ N37, κ N38]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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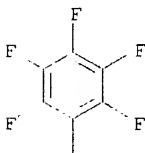


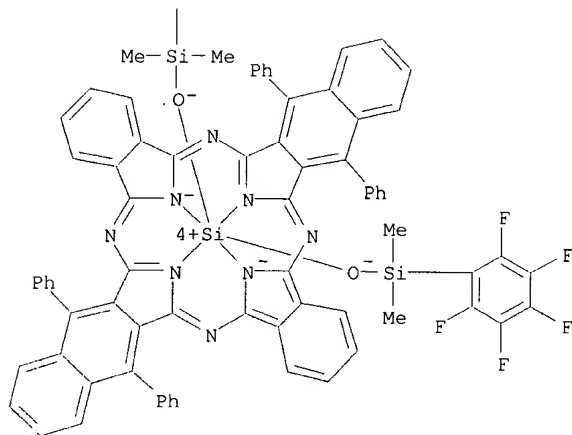
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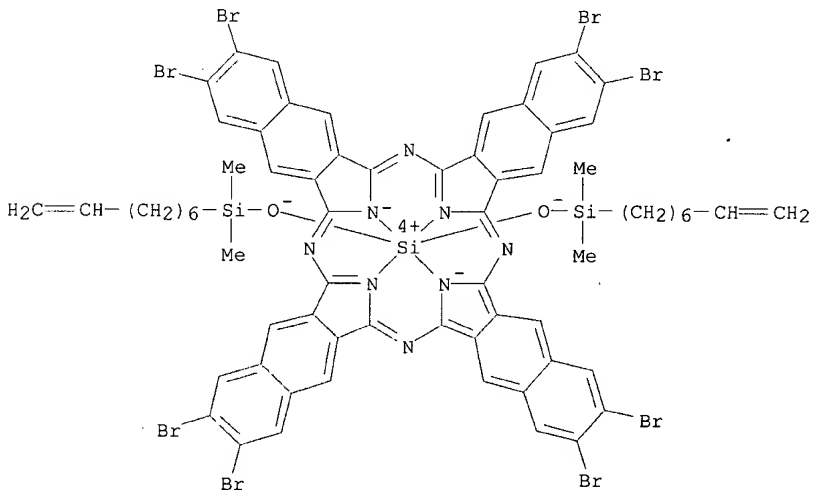
RN 183872-63-1 HCAPLUS
CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato- κ O][8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrizinato(2-)- κ N33, κ N34, κ N35, κ N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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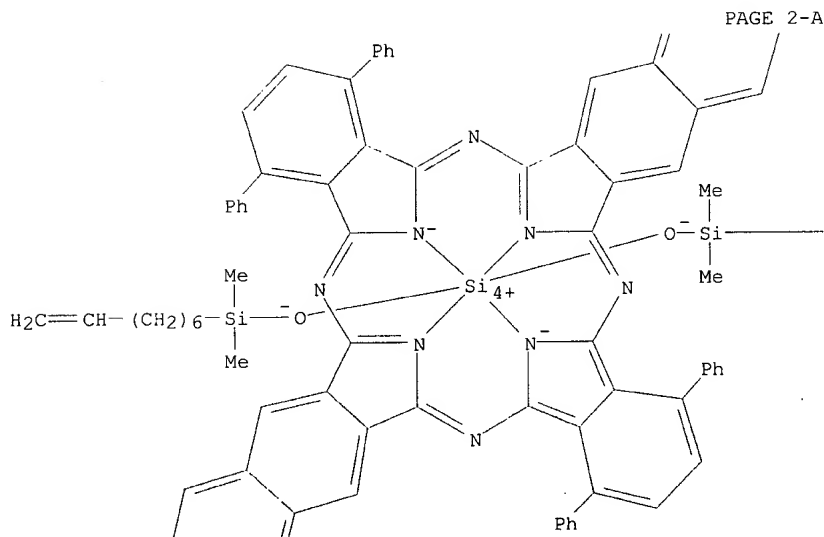
RN 183872-66-4 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato)[2,3,11,12,20,21,29,30-octabromo-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)-(9CI) (CA INDEX NAME)



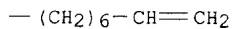
RN 183872-71-1 HCAPLUS
 CN Silicon, (dimethyl-7-octenylsilanolato)[1,4,17,20-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g,2',3'-q]porphyrazinato(2-)-

.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

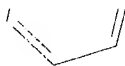
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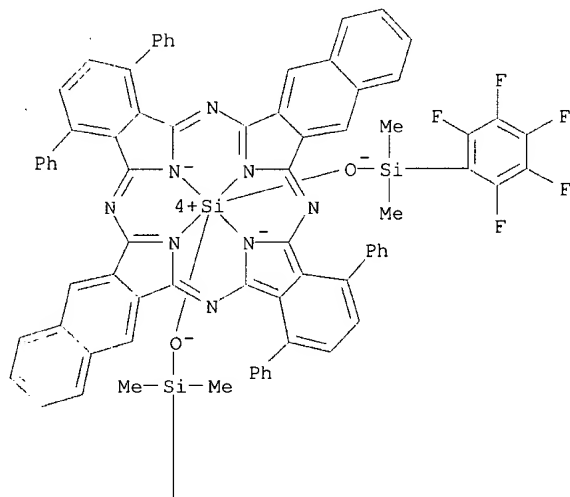


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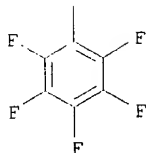


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 CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato- κ O][1,4,17,20-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g,2',3'-g]porphyrizinato(2-)- κ N33, κ N34, κ N35, κ N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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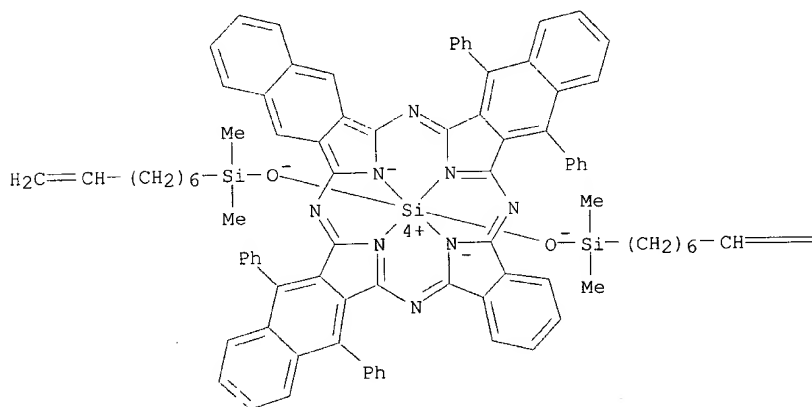


PAGE 2-A



RN 183872-74-4 HCAPLUS
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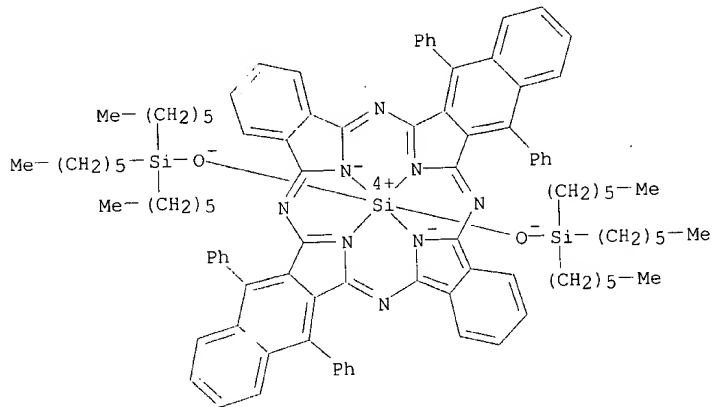
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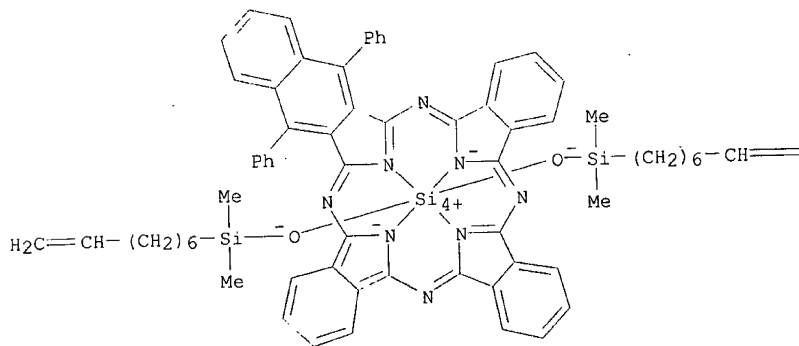
PAGE 1-B

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RN 183872-76-6 HCAPLUS
 CN Silicon, [8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrazinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]bis(triethylsilanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)



RN 183872-77-7 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato)[22,27-diphenyl-31H,33H-tribenzo[b,g,1]naphtho[2,3-q]porphyrazinato(2-)-.kappa.N31,.kappa.N32,.kappa.N33,.kappa.N34]-, (OC-6-13)- (9CI) (CA INDEX NAME)



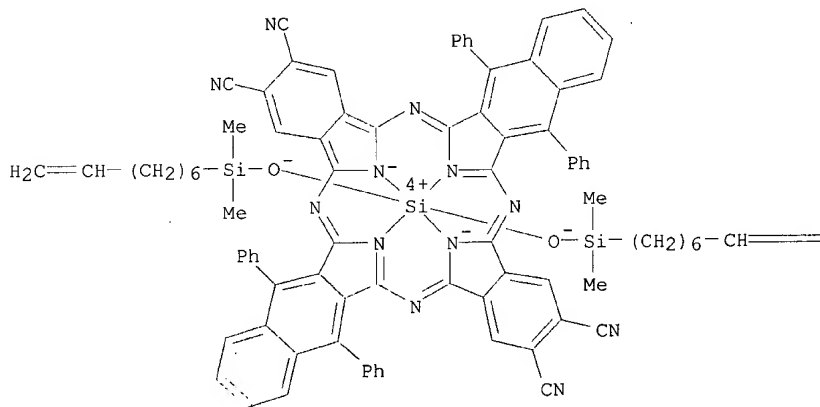
PAGE 1-A

PAGE 1-B

=CH₂

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PAGE 1-A

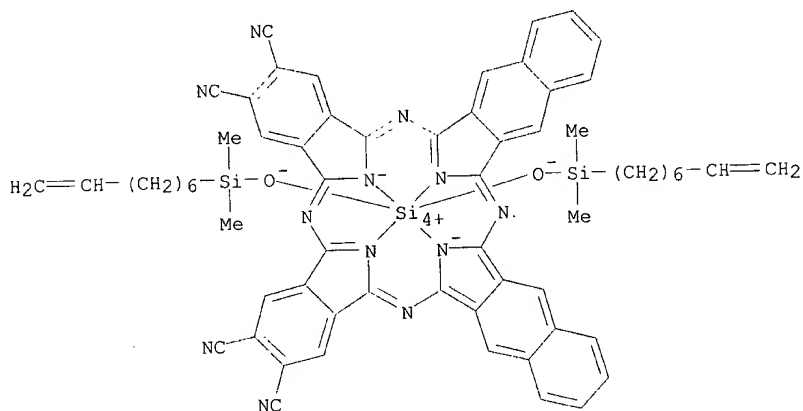


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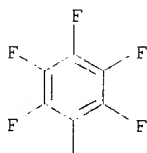
Epperson 09/776,599

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CN Silicon, bis(dimethyl-7-octenylsilanolato)[33H,35H-
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(OC-6-13)- (9CI) (CA INDEX NAME)

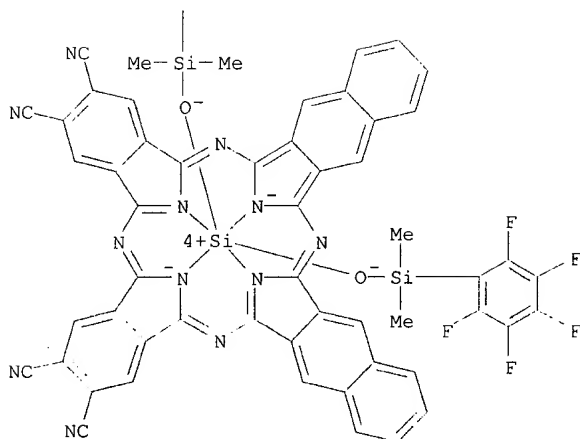


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dibenzo[b,g]dinaphtho[2',3'-1:2'',3''-q]porphyrazine-10,11,17,18-
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(OC-6-13)- (9CI) (CA INDEX NAME)

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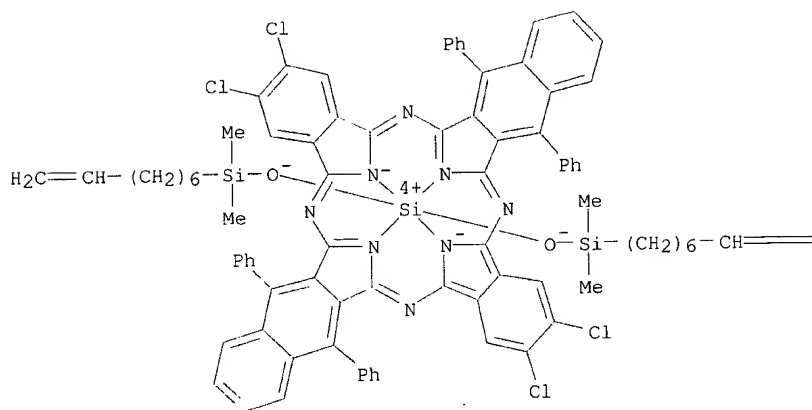
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Search completed by David Schreiber 308-4292

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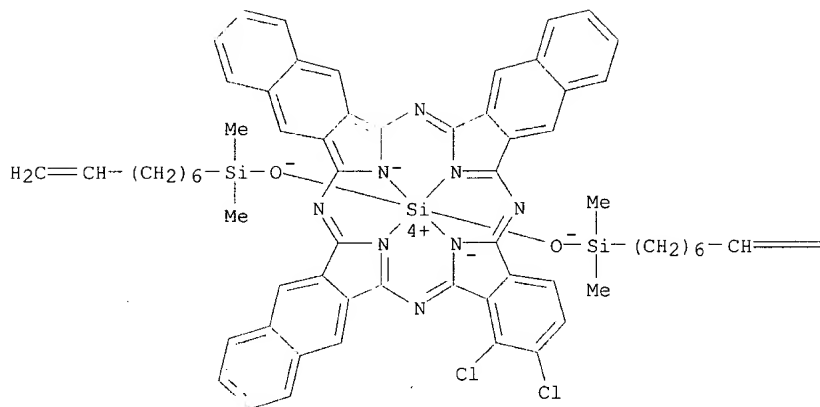


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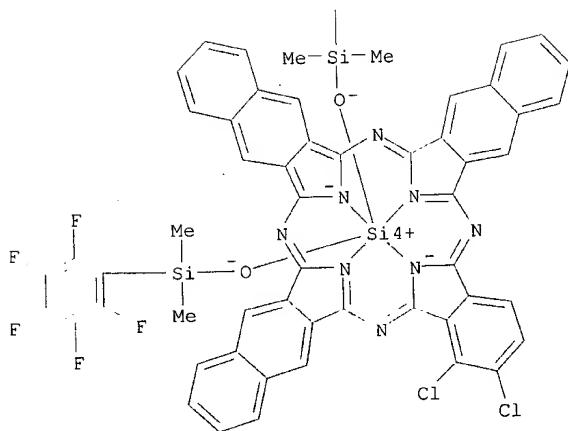
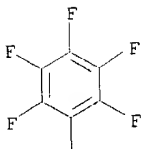
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PAGE 1-B

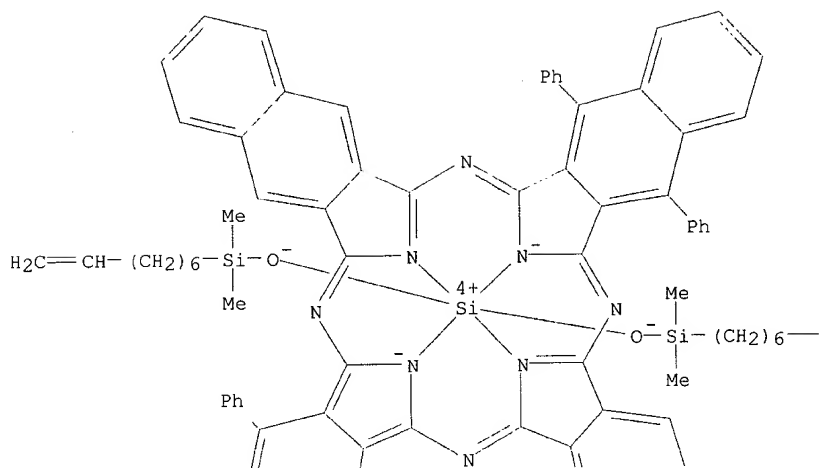
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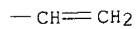


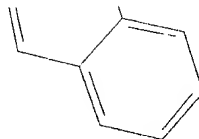
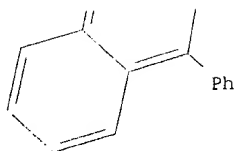
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 .kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX
 NAME)

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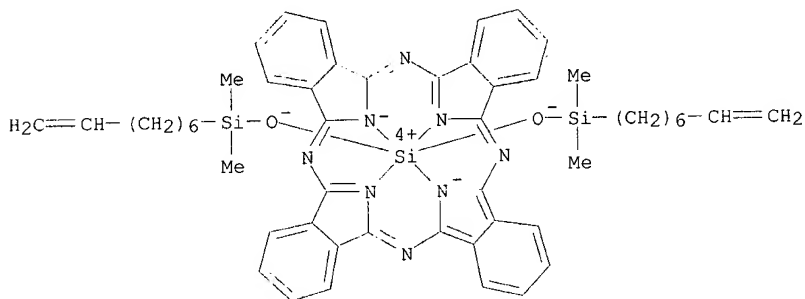


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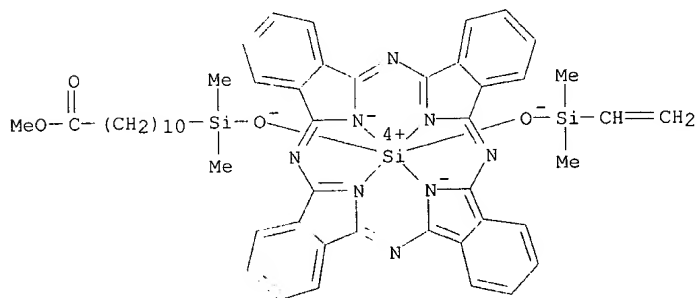




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 .kappa.N29, .kappa.N30, .kappa.N31, .kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX
 NAME)



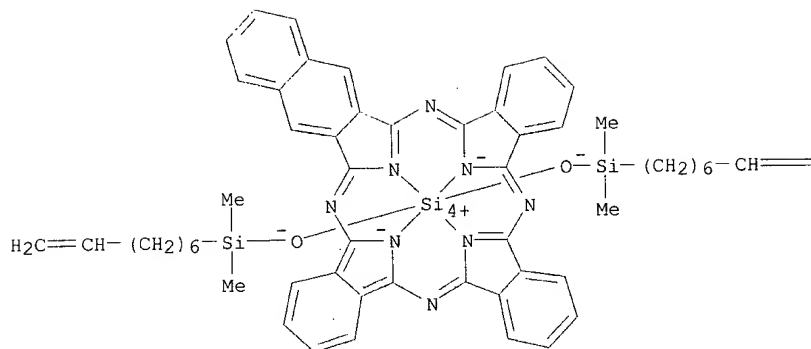
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 NAME)



RN 183873-03-2 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato) [31H, 33H-
 tribenzo[b,g,l]naphtho[2,3-q]porphyrizinato(2-)-
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 NAME)

NAME)

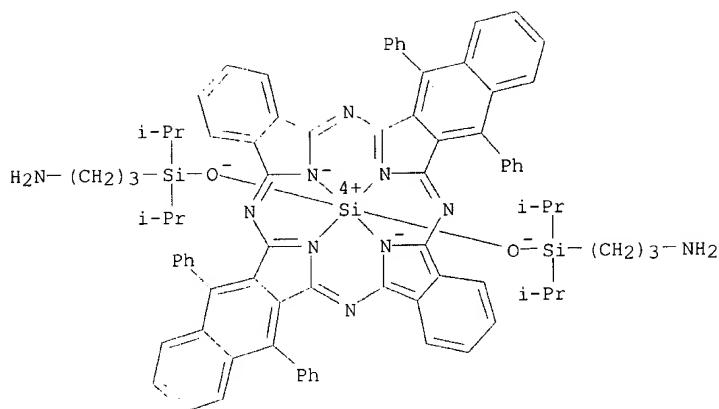
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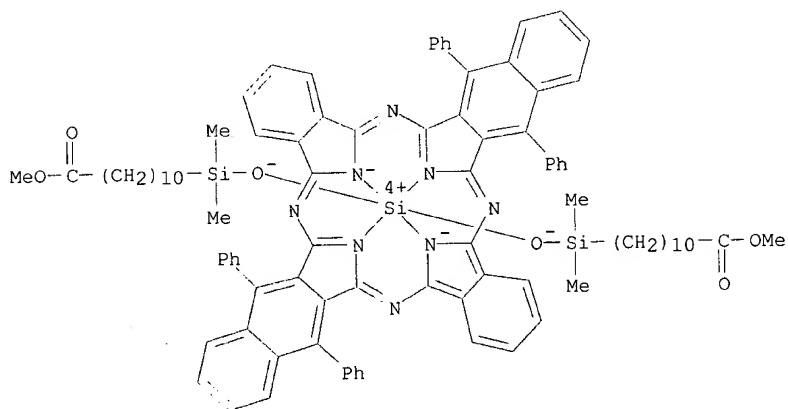
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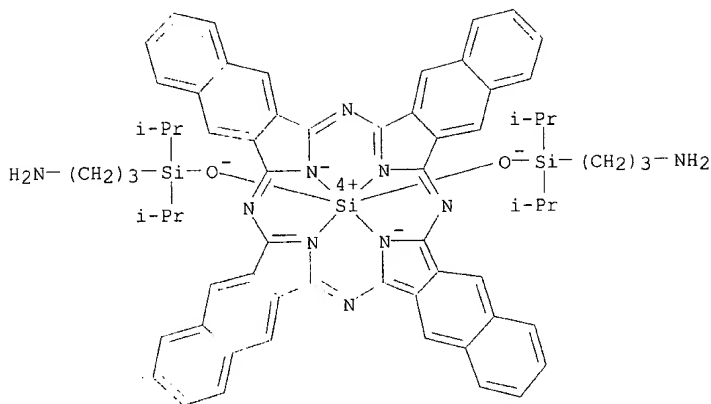
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 q]porphyrinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-,
 (OC-6-12)-(9CI) (CA INDEX NAME)



RN 183873-13-4 HCAPLUS
 CN Silicon, bis[methyl 11-[(hydroxy-.kappa.O)dimethylsilyl]unadecanoato][8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)-(9CI) (CA INDEX NAME)

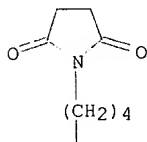


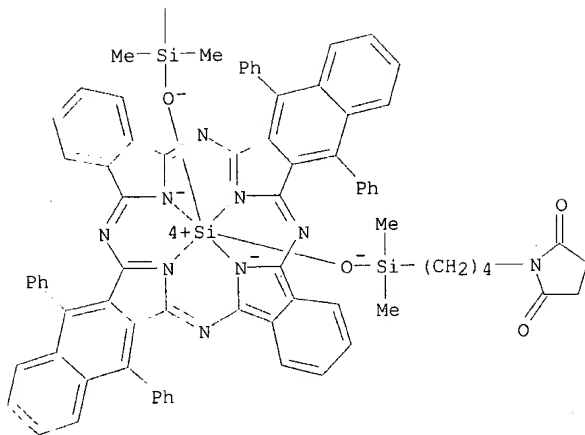
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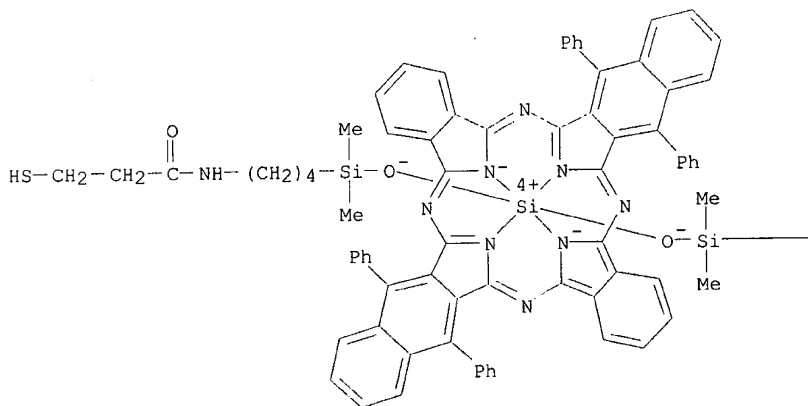
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 dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrazinato(2-)-
 .kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX
 NAME)

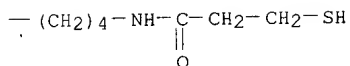
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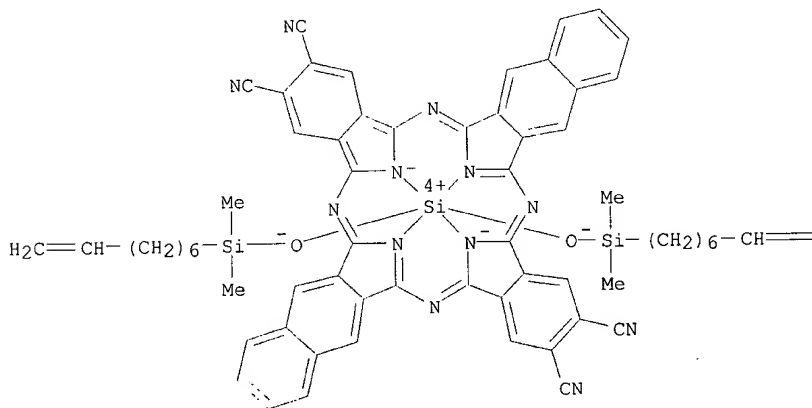


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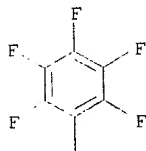


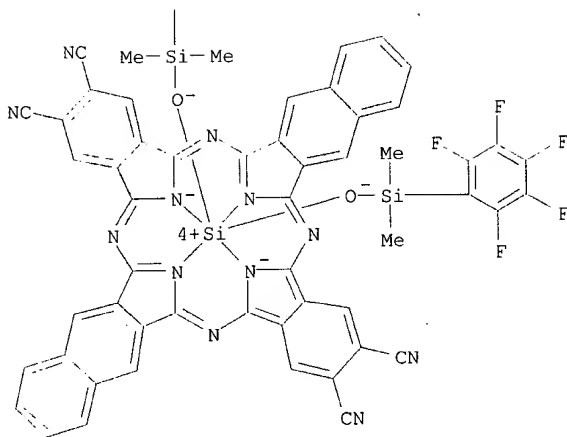
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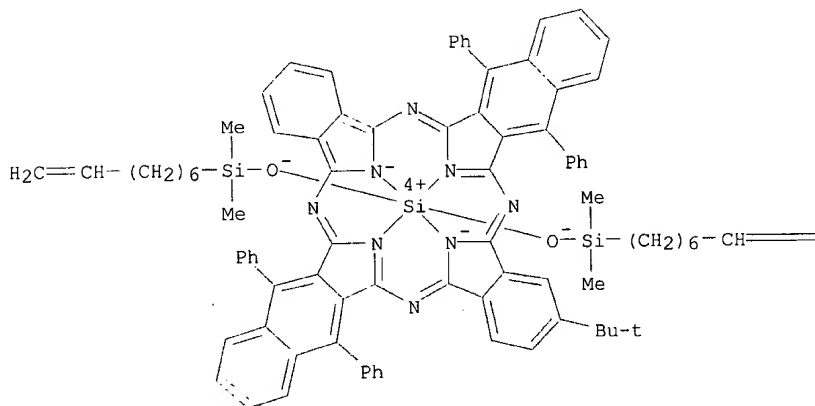
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(CA INDEX NAME)





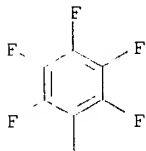
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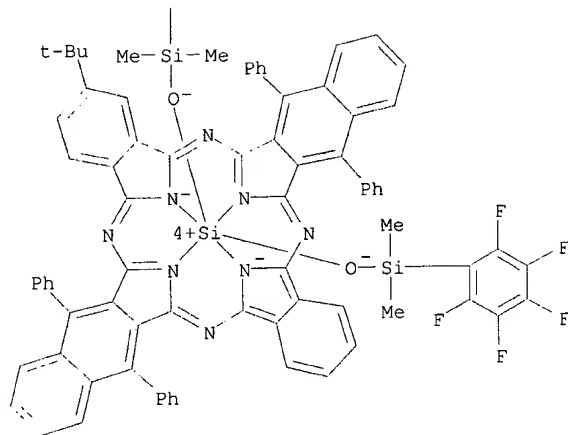
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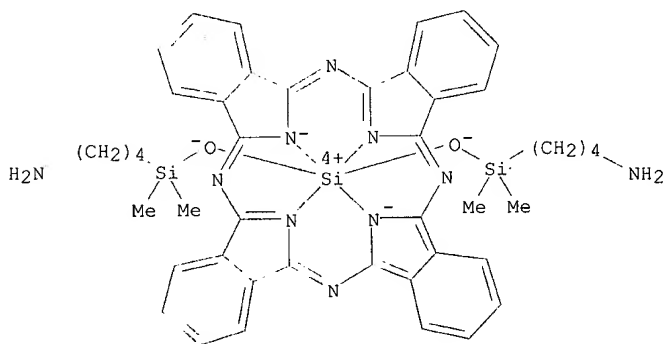
PAGE 2-A



PAGE 3-A

D1-Bu-t

RN 184013-80-7 HCAPLUS
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4 (D1-Bu-t)

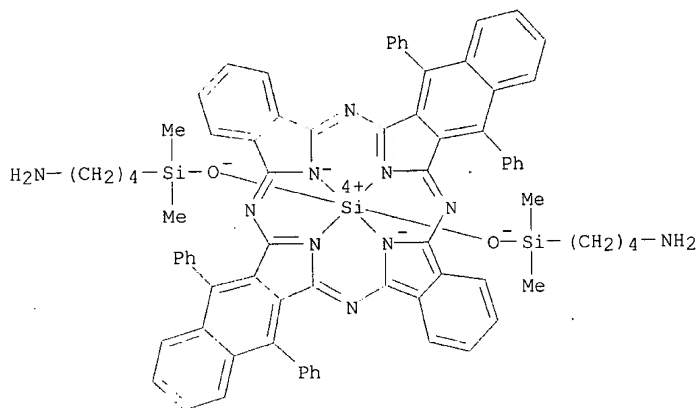
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(Reactant or reagent)

(prepn. of water-sol. fluorescent hybrid phthalocyanine derivs. for immunoassays)

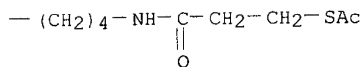
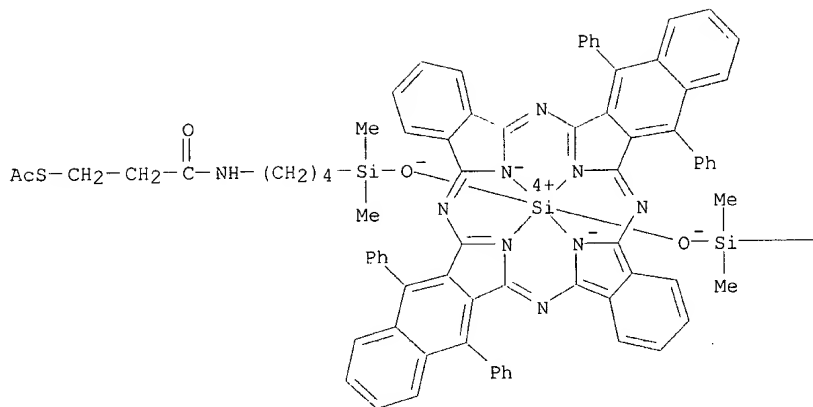
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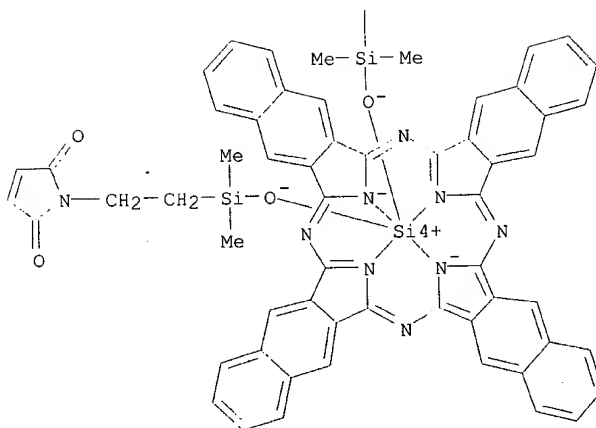
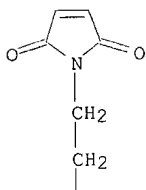
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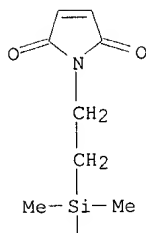
L31 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2003 ACS
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 DOCUMENT NUMBER: 124:4485
 TITLE: Fluorescence energy transfer and intramolecular energy transfer in particles using novel compounds
 INVENTOR(S): Buechler, Kenneth Francis; Noar, Joseph Barry; Tadesse, Lema
 PATENT ASSIGNEE(S): Biosite Diagnostics Inc., USA
 SOURCE: PCT Int. Appl., 138 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9508772	A1	19950330	WO 1994-US10826	19940923
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
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			US 1994-311098	A2 19940923
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			US 1998-66255	A2 19980424
AB	<p>Particles and methods are disclosed for the detection or visualization of analytes, including nucleic acids by using fluorescence energy transfer or intramol. energy transfer. Particles comprising an energy donor as a first component and a fluorescent dye as a second component positioned in said particles at an energy exchanging distance from one another, wherein the two components have a Stokes shift of .gtoreq.50 nm, said particle having bound on its surface, a protein, polypeptide, nucleic acid, nucleotide or protein contg. ligand analog are disclosed and claimed. In addn., novel fluorescent dyes are described which exhibit intramol. energy transfer for use in labeling various mols., proteins, polypeptides, nucleotides and nucleic acids or incorporating into particles. Many novel phthalocyanine derivs. and hybrid phthalocyanine derivs. are disclosed and claimed. Such derivs. also may contain an electron transfer subunit. Axial ligands may be covalently bound to the metals contained in the hybrid phthalocyanine derivs. Numerous compds. capable of intramol. energy transfer as well as compds. for fluorescence energy transfer are claimed.</p>			
IT.	<p>163968-86-3 163968-87-4 163968-88-5 163968-89-6 163968-91-0 163968-92-1 163968-93-2 163968-95-4</p>			
	<p>RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (fluorescence and intramol. energy transfer in particles for biochem. anal.)</p>			
RN	163968-86-3 HCAPLUS			
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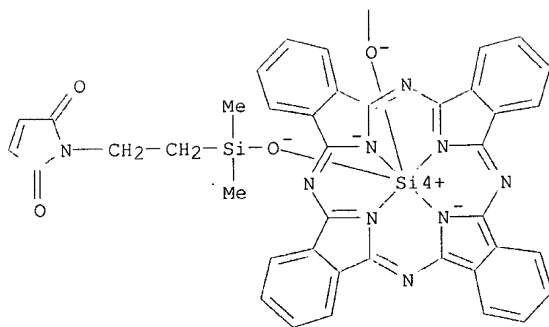


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 INDEX NAME)

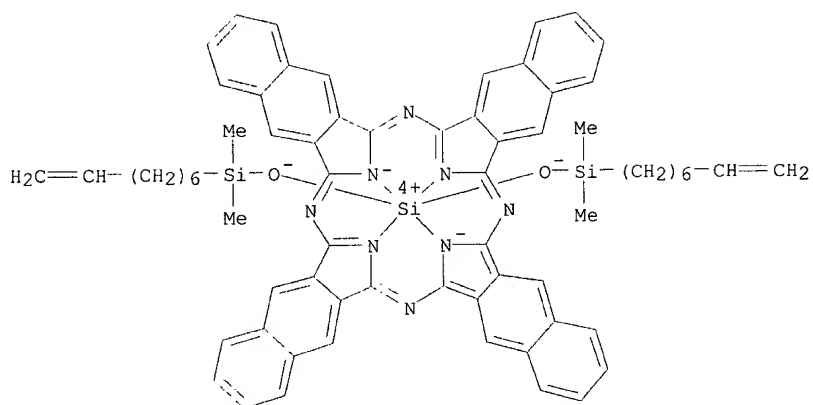
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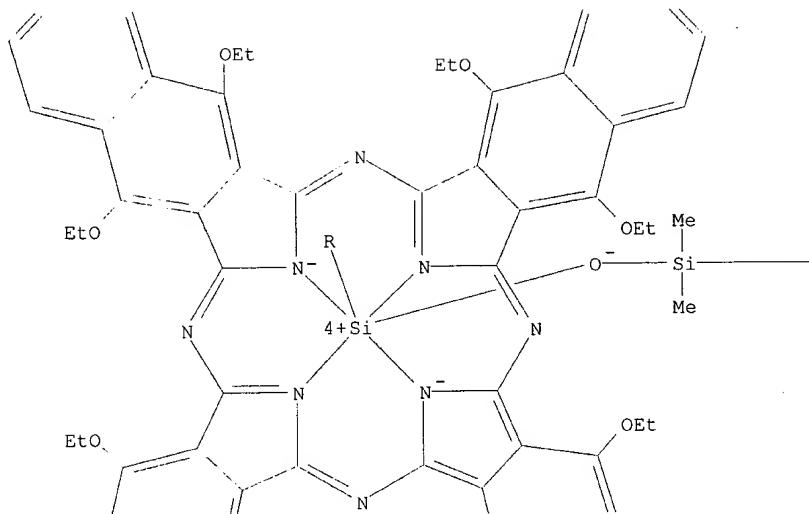
RN 163968-88-5 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilylanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-1:2''',3'''-q]porphyrizinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)



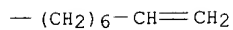
RN 163968-89-6 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilanolato)[5,9,14,18,23,27,32,36-octaethoxy-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

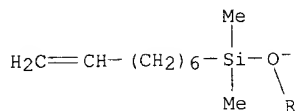
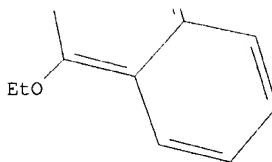
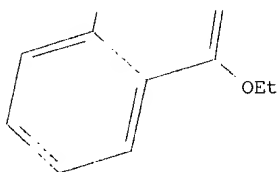
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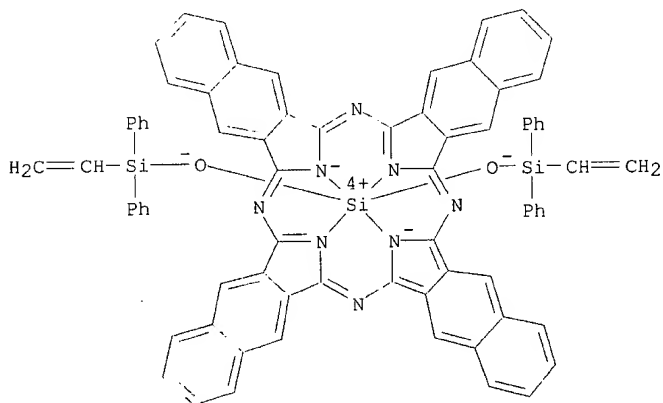


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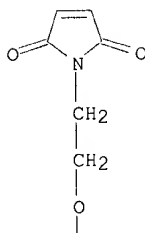


RN 163968-91-0 HCAPLUS
 CN Silicon, bis(ethenyldiphenylsilanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrizinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)-(9CI) (CA INDEX NAME)

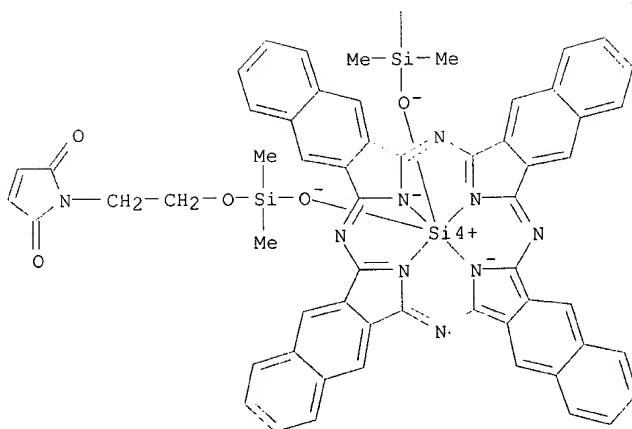


RN 163968-92-1 HCAPLUS
 CN Silicon, bis[1-[2-[[[(hydroxy-.kappa.O)dimethylsilyl]oxy]ethyl]-1H-pyrrole-2,5-dionato][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrizinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)-(9CI) (CA INDEX NAME)

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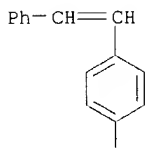


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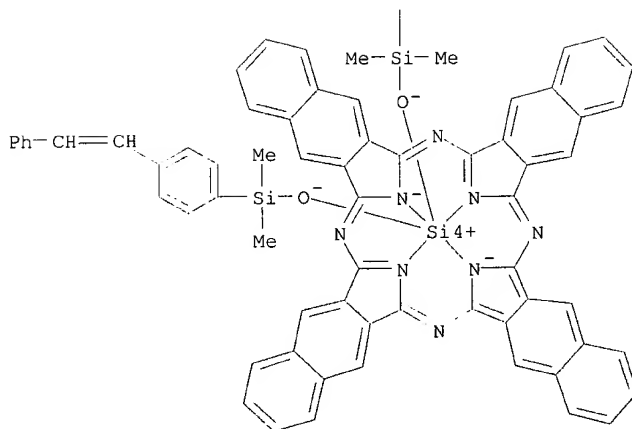


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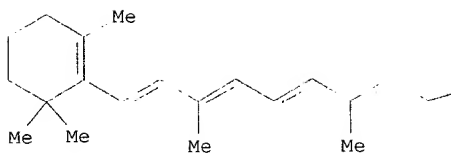
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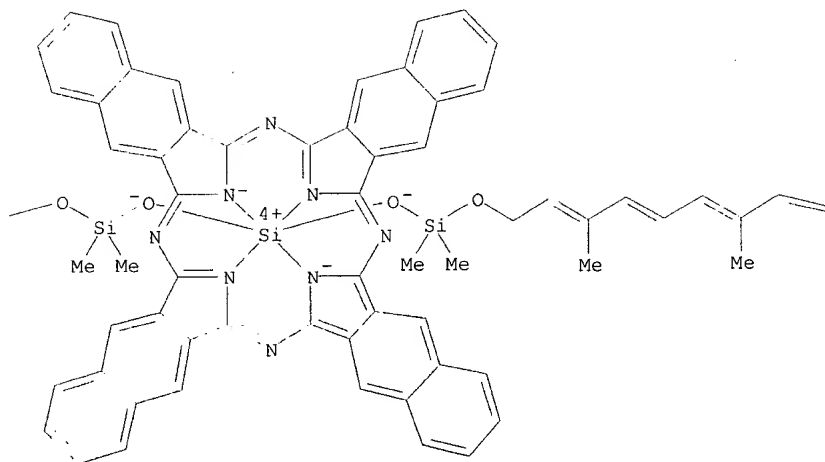
RN 163968-95-4 HCAPLUS
 CN Silicon, bis[[[(2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4,6,8-nonatetraenyl]oxy]dimethylsilanolato][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-l:2''',3''''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX

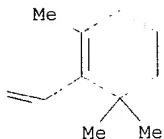
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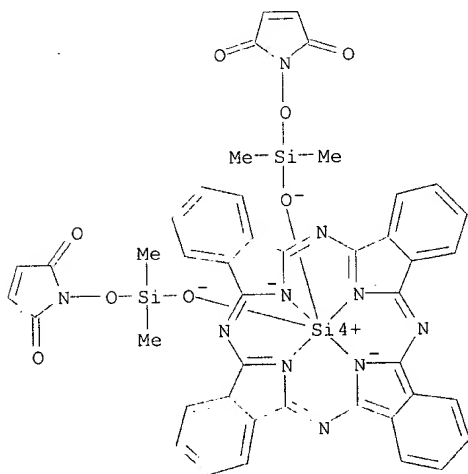


IT 163969-18-4

RL: ARG (Analytical reagent use); RCT (Reactant); ANST (Analytical study);
 RACT (Reactant or reagent); USES (Uses)
 (fluorescence and intramol. energy transfer in particles for biochem.
 anal.)

RN 163969-18-4 HCAPLUS

CN Silicon, bis[1-[(hydroxydimethylsilyl)oxy]-1H-pyrrole-2,5-dionato][29H,31H-
 phthalocyaninato(2-)-N29,N30,N31,N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)

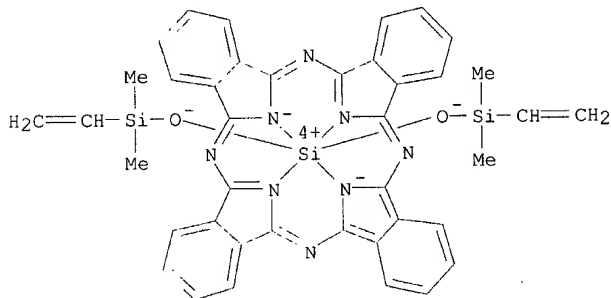


IT 68812-20-4P 92396-89-9P 163968-94-3P
 163969-07-1P 163969-08-2P 163969-09-3P
 163969-10-6P 163969-11-7P 163969-15-1P
 163969-25-3P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST
 (Analytical study); PREP (Preparation); USES (Uses)
 (fluorescence and intramol. energy transfer in particles for biochem.
 anal.)

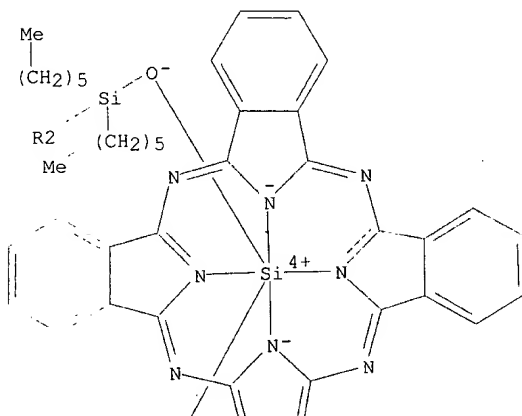
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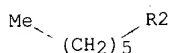
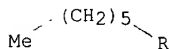
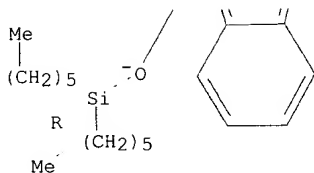
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CN Silicon, bis(ethenyldimethylsilanolato) [29H,31H-phthalocyaninato(2-)-
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NAME)



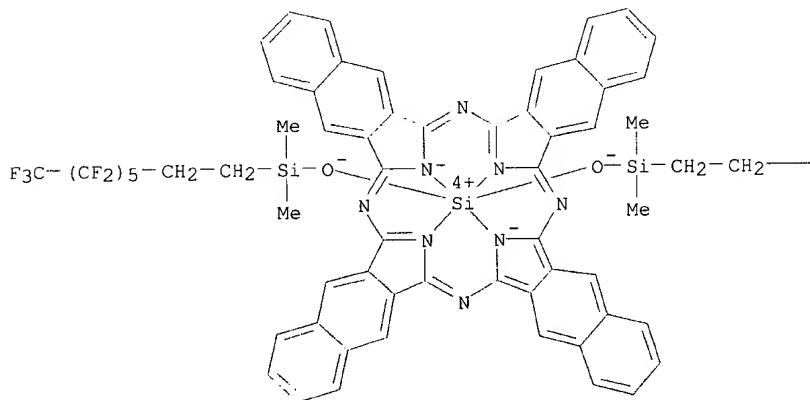
RN 92396-89-9 HCAPLUS
CN Silicon, [29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]bis(trihexylsilanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)

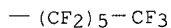
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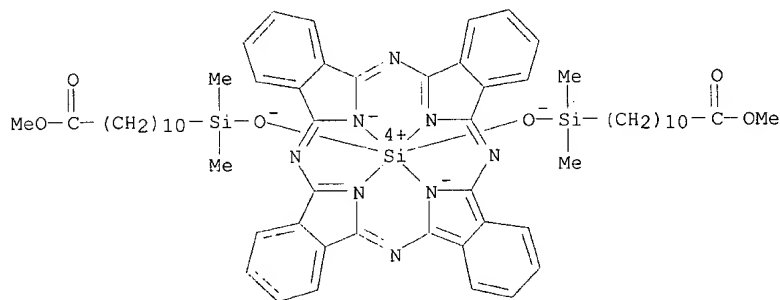


RN 163968-94-3 HCAPLUS
 CN Silicon, bis[dimethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silanolato-.kappa.O][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3'''-1:2'',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

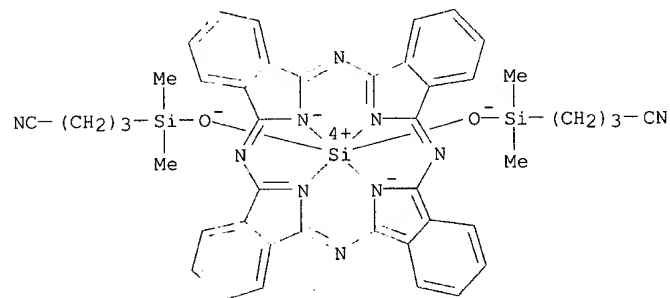




RN 163969-07-1 HCAPLUS
 CN Silicon, bis[methyl 11-[(hydroxy-.kappa.O)dimethylsilyl]undecanoato] [29H, 3
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 (OC-6-12)-(9CI) (CA INDEX NAME)



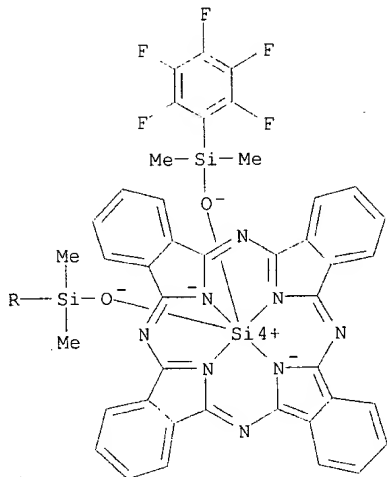
RN 163969-08-2 HCAPLUS
 CN Silicon, bis[4-[(hydroxy-.kappa.O)dimethylsilyl]butanenitrilato] [29H, 31H-
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 (OC-6-12)-(9CI) (CA INDEX NAME)



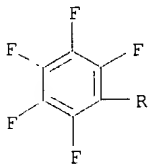
RN 163969-09-3 HCAPLUS
 CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O] [29H, 31H-

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(OC-6-12)- (9CI) (CA INDEX NAME)

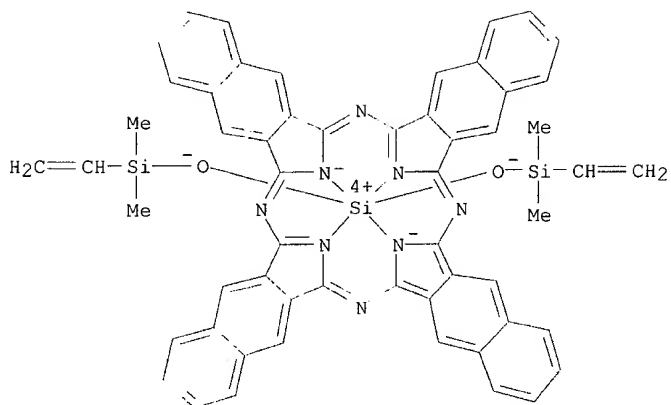
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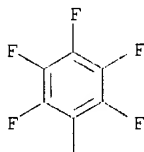


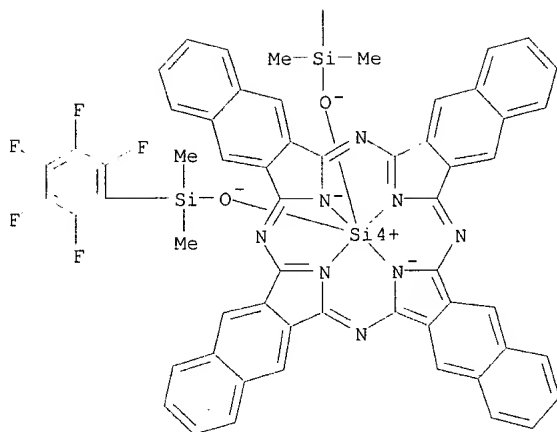
RN 163969-10-6 HCAPLUS
CN Silicon, bis(ethenyldimethylsilanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)



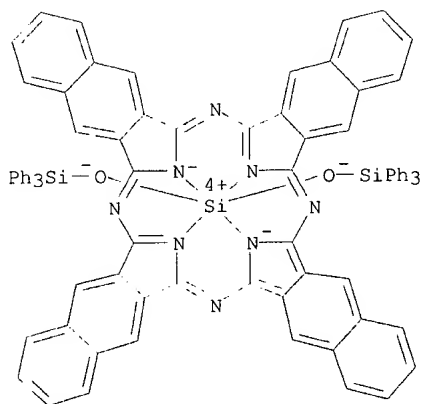
RN 163969-11-7 HCAPLUS
 CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato- κ O][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2-)- κ .N37, κ .N38, κ .N39, κ .N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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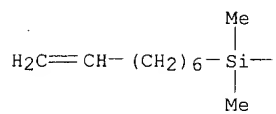


RN 163969-15-1 HCAPLUS
 CN Silicon, [37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]bis(triphenylsilylanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)

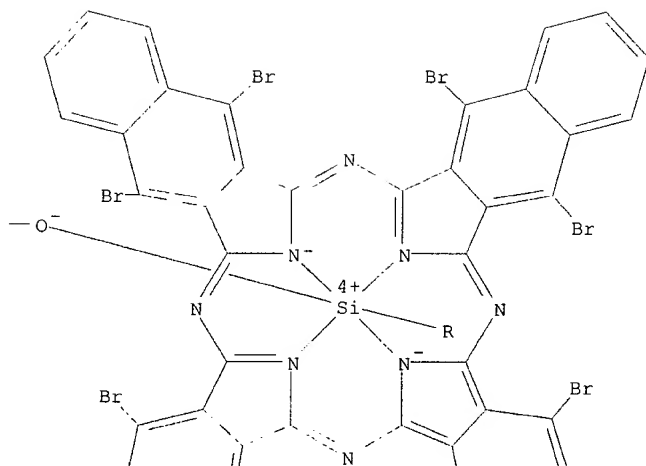


RN 163969-25-3 HCAPLUS
 CN Silicon, bis(dimethyl-7-octenylsilylanolato)[5,9,14,18,23,27,32,36-octabromo-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-)-N37,N38,N39,N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

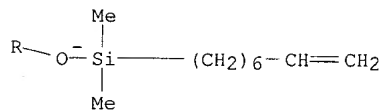
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